

#### U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

Date of Issuance:

89168-122

EPA Reg. Number:

11/08/21

V	O	T	<b>ICE</b>	OF	PES'	TIC	IDE:

\_\_\_\_ Registration
\_\_\_\_ Reregistration
(under FIFRA, as amended)

Term of Issuance:
Unconditional

Name of Pesticide Product:

LIBERTY FLUDI-CYPRO

Name and Address of Registrant (include ZIP Code):

Liberty Crop Protection 1880 Fall River Drive Suite 100 Loveland, Colorado 80538 Mail to:

Karen Murphy Regulatory Manager Liberty Crop Protection

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Date

11/08/21

Cynthia Giles-Parker Branch Chief (FB)

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Fungicide Branch, Registration Division (7505P)

- 2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 89168-122."
- 3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 01/15/2021
- Alternate CSF 1 dated 01/15/2021
- Alternate CSF 2 dated 01/15/2021
- Alternate CSF 3 dated 01/15/2021

If you have any questions, please contact Senedu Alemu or via email at alemu.senedu@epa.gov

Enclosure

[Note to reviewer: [Text] in brackets denotes optional or explanatory language [Note to reviewer: {Text} in braces denotes where in the final label text will appear

**{BOOKLET FRONT PANEL LANGUAGE}** 

CYPRODINIL	GROUP	9	FUNGICIDE
FLUDIOXONIL	GROUP	12	FUNGICIDE

## **LIBERTY FLUDI-CYPRO**

Active Ingredient:	(% by weight)
Cyprodinil*	37.5%
Fludioxonil**	25.0%
Other Ingredients:	37.5%
Total	100.0%
*CAS No. 121552-61-2	

\*\*CAS No. 131341-86-1

LIBERTY FLUDI-CYPRO is a water-dispersible granule containing 37.5% cyprodinil and 25% fludioxonil.

## **KEEP OUT OF REACH OF CHILDREN CAUTION**

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.)

See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

EPA Reg. No.: 89168-XX

EPA Est. No.:

**Net Contents:** 

Manufactured For:

LIBERTY CROP PROTECTION, LLC 1880 FALL RIVER DRIVE, SUITE 100 LOVELAND, CO 80538

ACCEPTED

11/08/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 89168-122

102121V2

## **{LANGUAGE INSIDE BOOKLET}**

	FIRST AID			
<ul> <li>If on skin or clothing:</li> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> </ul>				
	Call a poison control center or doctor for treatment advice.			
If in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>			
	HOT LINE NUMBER			
HOT LINE NUMBER  Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  Emergency Spill, Leak, Fire Exposure or Accident Call CHEMTREC Day or Night 800-424-9300				

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

## **PRECAUTIONARY STATEMENTS**

# Hazards to Humans and Domestic Animals CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers applying this product as a preplant dip to strawberry roots and crowns and workers packaging or preparing treated roots and crowns for shipment must wear:

- Chemical-resistant apron made of any waterproof material
- Elbow-length chemical-resistant glove made out of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils
- Chemical-resistant boots made of any waterproof material

## Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

## In addition, mixers and loaders for aerial, groundboom, and chemigation applications must wear:

 A minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters.

## **USER SAFETY REQUIREMENTS**

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

#### **ENGINEERING CONTROLS**

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.

Aerial applicators must be in enclosed cockpits.

#### **USER SAFETY RECOMMENDATIONS**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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 pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. For terrestrial uses: DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwater or rinsate.

#### **Groundwater Advisory**

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

#### **Surface Water Advisory**

This chemical may contaminate water through drift of spray in wind. This chemical has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this chemical. A level, well maintained vegetative buffer strip between areas to which this chemical is applied and surface water features including ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this chemical will be reduced by avoiding applications when conditions favor runoff (including as when soils are saturated and/or significant rainfall is forecast in the next 48 hours). Sound erosion control practices will reduce this chemical's contribution to surface water contamination.

## **PHYSICAL OR CHEMICAL HAZARDS**

DO NOT mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

## **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, 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.

#### **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 this label about personal protective equipment (PPE); notification to workers, 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, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made out of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils.
- Shoes plus socks

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

## PRODUCT INFORMATION

**LIBERTY FLUDI-CYPRO** is a broad spectrum fungicide for the control of certain diseases.

## **PRODUCT USE RESTRICTIONS**

#### **Rotational Crop Restrictions**

DO NOT plant any crop which is not registered for use with cyprodinil or fludioxonil for a period of 30 days, unless a shorter interval is specified on the following list.

Rotational Crop	Planting Time From Last LIBERTY FLUDI-CYPRO Application
Beans (dried and succulent except cowpeas)*	
Berries (bushberries 13-07B, caneberries 13-07A)*	
Brassica (Cole) Leafy Vegetables*	
Cucurbits*	
Herbs (fresh and dried)*	
Leafy Vegetables*	
Leaves of Root and Tuber Vegetables*	
Onions (dry bulb, garlic, and green)	0 days
Peppers	
Tuberous and Corm Vegetables (crop subgroup 1C)*	
Root and Tuber Vegetables except Sugar beet*	
Strawberries	
Tomatoes	
Watercress	
Crops Not Intended for Food or Feed	
All Other Crops Intended for Food or Feed	30 davs

<sup>\*</sup>See crop lists in **CROP USE DIRECTIONS** section.

In annual crops where multiple crops can be grown per year (double/triple cropping), DO NOT apply more than 1.3 lb ai cyprodinil and 0.9 lb ai fludioxonil per acre per year to an individual plot of land.

For the crops to which aerial applications are allowed, refer to the specific crop directions for use.

Nassau and Suffolk counties of New York: use limited to strawberries and onions.

## **RESISTANCE MANAGEMENT**

CYPRODINIL	GROUP	9 FUNGICIDE
FLUDIOXONIL	GROUP	12 FUNGICIDE

For resistance management, please note that **LIBERTY FLUDI-CYPRO** contains both a Group 9/cyprodinil and Group 12/fludioxonil fungicide. Any fungal population may contain individuals naturally resistant to **LIBERTY FLUDI-CYPRO** and other Group 9 or Group 12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies must be followed.

To delay fungicide/bactericide resistance, take one or more of the following steps:

- Rotate the use of LIBERTY FLUDI-CYPRO or other Group 9 and 12 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses
  historical information related to pesticide use, and crop rotation, and which considers host plant
  resistance, impact of environmental conditions on disease development, disease thresholds, as
  well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM directions for specific crops and pathogens.
- For further information or to report suspected resistance contact your pesticide distributor or university extension specialist to report resistance.

## **APPLICATION INSTRUCTIONS**

Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control. Use minimum ground spray volumes of 10 gal/A for field and vegetable crops and 50 gal/A for tree crops. For aerial application, see directions in the specific crop directions for use.

To avoid spray drift, DO NOT apply when conditions favor drift beyond the target area. Avoid spray overlap, as crop injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Calibrate sprayer before use. Use a pump with capacity to maintain the correct rated pressure for the nozzles selected. Maintain sufficient agitation to keep the mixture in suspension. Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation. DO NOT air sparge.

Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturers' directions.

For more information on spray equipment and calibration, consult sprayer manufacturers' and state guidelines. For specific local directions and spray schedules, consult the current state agricultural experiment station guidelines.

OBSERVE THE FOLLOWING RESTRICTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH FARM PONDS.

- DO NOT apply within 75 ft of bodies of water including lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries.
- Shut off the sprayer when at row ends.
- DO NOT cultivate within 10 ft of aquatic areas as to allow a vegetative filter strip.
- DO NOT apply when weather conditions favor drift to aquatic areas. DO NOT apply when gusts or sustained winds exceed 15 mph.
- DO NOT apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.
- For perennial crops including as tree crops and grapes:
  - For all plantings within 150 ft of bodies of water as described above, spray crops from outside the planting away from the bodies of water.
  - Spray last three rows windward of aquatic areas using nozzles on one side only, with spray directed
    away from aquatic areas. Adjust or turn off top nozzles on the side away from the grove/orchard
    when spraying the outside row. Shut off nozzles when turning at ends of row or passing tree gaps
    in the rows.

#### **Ground Application**

• Apply in a minimum of 10 gallons of water per acre, unless specified otherwise.

#### **Ground Spray Drift Restriction**

DO NOT apply when wind speeds exceed 15 miles per hour at the application site.

#### **Aerial Spray Directions**

Avoid applications under conditions when uniform coverage cannot be obtained or when excessive drift may occur.

#### **Aerial Spray Drift Restrictions**

Observe the following restrictions when spraying in the vicinity of aquatic area including lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.

- Use only on crops where aerial applications are indicated.
- DO NOT apply by air within 150 ft of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.
- Release spray at the lowest height consistent with pest control and flight safety. DO NOT make applications more than 10 feet above the crop canopy.
- DO NOT apply when weather conditions favor drift to aquatic areas.
- DO NOT apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopter. Otherwise, the boom length must be 75% or less of the wingspan for fixedwing aircraft and 90% or less of the rotor diameter for helicopter.
- DO NOT apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.

#### **Aerial Spray Precautions**

Observe the following precautions when spraying in the vicinity of aquatic area including lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds.

- Use the largest droplet size consistent with good pest control.
- Formation of very small droplets may be minimized by appropriate nozzle selection, by orientating nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

- Reduce risk of exposure to aquatic areas by avoiding applications when wind direction is toward the aquatic area.
- Low humidity and high temperatures increase the evaporation rate of spray droplets, and therefore the likelihood of increased spray drift to aquatic area. Avoid spraying during conditions of low humidity and/or high temperatures.
- For the crops to which aerial applications are allowed, refer to the specific crop directions for use.
- Apply in a minimum of 5 gallons of water per acre, unless specified otherwise.

#### **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

#### IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

## **Controlling Droplet Size - Ground Boom**

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles
  designed to reduce drift.

## **Controlling Droplet Size – Aircraft**

• Adjust Nozzles - Follow nozzle manufacturer's guidelines for setting up nozzles. Generally, to reduce fine droplets, nozzles must be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT - Ground Boom**

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom must remain level with the crop and have minimal bounce.

## **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

When applying aerially to crops, DO NOT release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

#### SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

## **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to

no wind. The presence of an inversion can be indicated by ground fog or 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. Avoid applications during temperature inversions.

#### WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift

## **Boom-less Ground Applications:**

• Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

## **Handheld Technology Applications:**

Take precautions to minimize spray drift.

## **Application Through Irrigation Systems (Chemigation)**

- Use only on crops for which chemigation is specified on this label.
- Apply this product only through drip, microjet, center pivot, solid set, hand move, and moving wheel irrigation systems. 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.
- Apply in 0.125-0.25 inches/A of water. Excessive water may reduce efficacy.
- If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.
- DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

## **Operating Instructions**

- 1. 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.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
- 3. 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.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. 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.
- 6. Systems must use a metering pump, for example 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.
- 7. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

#### **Center Pivot Irrigation Equipment**

**Restrictions:** (1) Use only with drive systems which provide uniform water distribution. (2) DO NOT use end guns when chemigating **LIBERTY FLUDI-CYPRO** through center pivot systems because of non-uniform application.

- Determine the size of the area to be treated.
- Determine the time required to apply 1/8-½ inch of water over the area to be treated when the system and
  injection equipment are operated at normal pressures as specified by the equipment manufacturer. When
  applying LIBERTY FLUDI-CYPRO through irrigation equipment use the lowest obtainable water volume
  while
  - maintaining uniform distribution. Run the system at 80-95% of the manufacturer's rated capacity.
- Using water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of LIBERTY FLUDI-CYPRO required to treat the area covered by the irrigation system.
- Add the required amount of **LIBERTY FLUDI-CYPRO** and sufficient water to meet the injection time requirements to the solution tank.
- Make sure the system is fully charged with water before starting injection of the LIBERTY FLUDI-CYPRO solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- Maintain constant solution tank agitation during the injection period.
- Continue to operate the system until the **LIBERTY FLUDI-CYPRO** solution has cleared the sprinkler head.

## Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

- Determine the acreage covered by the sprinklers.
- Fill injector solution tank with water and adjust flow rate to use the contents over a 20- to 30-minute interval. When applying **LIBERTY FLUDI-CYPRO** through irrigation equipment, use the lowest obtainable water volume while maintaining uniform distribution.
- Determine the amount of LIBERTY FLUDI-CYPRO required to treat the area covered by the irrigation system.
- Add the required amount of **LIBERTY FLUDI-CYPRO** into the same quantity of water used to calibrate the injection period.
- Operate the system at the same pressure and time interval established during the calibration.
- Stop injection equipment after treatment is completed. Continue to operate the system until the **LIBERTY FLUDI-CYPRO** solution has cleared the last sprinkler head.

#### **Drip or Microjet Chemigation Systems**

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

Spray Preparation: Thoroughly clean the chemical tank and injector system. Flush system with clean water.

#### **Use Directions for Drip or Microjet Irrigation Applications**

**Drip or Microjet Irrigation: LIBERTY FLUDI-CYPRO** may be applied through drip irrigation systems for soil-borne disease control. Adequate soil moisture capacity prior to drip application is advised.

- Terminate drip irrigation at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. Delay subsequent irrigation (water only) for at least 24 hours following drip application for maximum efficacy.
- 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, including 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.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation
  water. A person knowledgeable of the chemigation system and responsible for its operation, or under the
  supervision of the responsible person, shall shut the system down and make necessary adjustments if the
  need arises.
- If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
- DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a
  public water system unless the pesticide label-prescribed safety devices for public water systems are in
  place.

#### SPECIFIC INSTRUCTIONS FOR PUBLIC WATER SYSTEMS

- 1. 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 serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. The pesticide injection pipeline must 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.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, including 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.
- 7. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

## **MIXING PROCEDURES**

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. DO NOT let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

**LIBERTY FLUDI-CYPRO** Alone: Add ½ of the required amount of water to the mix tank. With the agitator running, add the **LIBERTY FLUDI-CYPRO** to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the **LIBERTY FLUDI-CYPRO** has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

LIBERTY FLUDI-CYPRO + Tank Mixtures: LIBERTY FLUDI-CYPRO is compatible in tank mixtures with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state agricultural authorities for compatibility information. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

To prepare spray solution, add ½ of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. In general, add tank mix partners in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) including **LIBERTY FLUDI-CYPRO**, liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

When using **LIBERTY FLUDI-CYPRO** in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including **LIBERTY FLUDI-CYPRO**. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using **LIBERTY FLUDI-CYPRO** in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. DO NOT exceed label dosage rates, and follow the most restrictive label precautions and limitations. This product must not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

## **Product Conversion Table**

FI oz product/acre	Lb ai cyprodinil	Lb ai fludioxonil
5	.12	.08
7	.16	.11
8	.19	.13
10	.23	.16
11	.26	.17
12	.28	.19
14	.33	.22
19.2	.45	.3

## **CROP USE DIRECTIONS**

When a range of rates is provided, use the higher rates if weather conditions are conducive for higher disease pressure.

Crop	Disease	Product Rate oz/Acre (lb of AI)	Application Instructions
Beans	White Mold	11-14	Begin applications prior to or at the onset
(Dried and Succulent	(Sclerotinia	(0.26 -0.33 cyprodinil and	of disease and repeat applications on a 7-
except cowpeas)	sclerotiorum)	0.17 -0.22 fludioxonil)	day interval if conditions remain favorable
			for disease development.
Chickpea (garbanzo bean)	Gray Mold		
Bean	(Botrytis cinerea)		For White Mold control, make the first
(Lupinus spp.)			application at 10-20% bloom. In some
(grain lupin, sweet lupin,			locations a single application at this timing
white lupin, white sweet			will provide adequate disease control.
lupin)			
Bean			Resistance Management: After 2
(Phaseolus spp.)			applications of LIBERTY FLUDI-CYPRO,
(kidney, lima, mung,			alternate with another fungicide with a
navy, pinto, snap, wax)			different mode of action for 2
Broad Bean			applications.
(fava bean)			
Bean			
(Vigna spp.) (asparagus,			
blackeyed pea)			

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 5 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil- containing products per year.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 7 days of harvest (7-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Berries	Mummy berry	11-14	Begin applications prior to or at the
	(Monilinia	(0.26 -0.33 cyprodinil and	onset of disease and repeat applications
Bushberry Subgroup 13-07B*	vacciniicorymbosi)	0.17 -0.22 fludioxonil)	on a 7-10 day interval if conditions
Blueberry			remain favorable for disease
Currant	Anthracnose		development.
	(Colletotrichum spp.)		
Caneberry Subgroup 13-07A**			Resistance Management: After 2
Blackberry	Alternaria fruit rot		applications of LIBERTY FLUDI-CYPRO,
Red and Black	(Alternaria		alternate with another fungicide with a
Raspberry	tenuissima)		different mode of action for 2
	· ·		applications.
And cultivars and/or	Phomopsis		
hybrids of these.	(Phomopsis vaccinii)		
·	,		
	Botrytis Fruit Rot		
	(Botryis cinerea)		

## **Complete List of Bushberries and Caneberries:**

**Application Instructions:** Application may be made by ground or air. Good coverage is essential for good disease control. Use a minimum of 5 gallons/A spray volume by air. Make no more than two applications by air.

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, or air.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied on the day of harvest (0-day PHI).

<sup>\*</sup>Bushberries: Aronia berry, Black currant, Blueberry high and low bush, Buffalo currant, Chilean guava, Edible honeysuckle, Elderberry, European barberry, Gooseberry, Highbush cranberry, Huckleberry, Jostaberry, Juneberry (Saskatoon berry), Lingonberry, Native currant, Red currant, Salal, Sea buckthorn

<sup>\*\*</sup>Caneberries: Blackberry, Loganberry, Red and Black Raspberry, Wild raspberry

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Brassica (Cole) Leafy	Powdery Mildew	10-12	Begin applications prior to or at the onset of
Vegetables*	(Erysiphe polygoni)	(0.23 -0.28 cyprodinil	disease and repeat applications on a 7-10 day
		and	interval if conditions remain favorable for
Broccoli		0.16 -0.19 fludioxonil)	disease development.
Brussels sprouts	Alternaria leaf blight	11-14	
Cabbage	(Alternaria spp.)	(0.26 -0.33 cyprodinil	Resistance Management: After 2 applications
Cauliflower		and	of LIBERTY FLUDI-CYPRO, alternate with
Collards	Suppression:	0.17 -0.22 fludioxonil)	another fungicide with a different mode of
Kale	Cercospora leaf spot		action for 2 applications.
Mustard greens	(Cercospora brassicicola)		
And cultivars and/or			
hybrids of these.			

<sup>\*</sup>Complete List of Brassica (Cole) Leafy Vegetables: Broccoli; Broccoli, Chinese; Broccoli raab; Brussels sprouts; Cabbage; Cabbage, Chinese; Cauliflower; Cavalo broccoli; Collards; Kale; Kohlrabi; Mizuna; Mustard greens; Mustard spinach; Rape greens; Turnip greens

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 10 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- DO NOT use roots of treated turnips for food or feed. Only turnip varieties harvested for their leaves may be treated.
- Maximum Single Application Rate: DO NOT exceed the maximum rate listed in the table.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 7 days of harvest (7-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Citrus  Lemon Lime	Alternaria Stem End Rot (Alternaria citri)  Anthracnose (Colletotrichum gloeosporioides)  Blue Mold (Penicillium italicum)  Green Mold (Penicillium digitatum)	11-14 (0.26 -0.33 cyprodinil and 0.17 -0.22 fludioxonil)	Make one application near harvest to prevent post-harvest fruit rot. The application may be made up to and including the day of harvest.

#### **Specific Use Restrictions**

- Application may be made by ground only.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 14 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 1 application per year.
- DO NOT apply more than 0.33 lb ai/A of cyprodinil-containing products and 0.22 lb ai/A of fludioxonil-containing products per year.
- May be applied on the day of harvest (0-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of AI)	Application Instructions
Cucurbits*	Alternaria Leaf Blight (Alternaria cucumerina)	11-14 (0.26 -0.33 cyprodinil and	Begin applications prior to or at the onset of disease and repeat applications
Cantaloupe Cucumber Honeydew	Alternaria Leaf Spot (A. alternata)	0.17 -0.22 fludioxonil)	on a 7-10 day interval if conditions remain favorable for disease development.
Muskmelon Watermelon	Gummy Stem Blight (Didymella bryoniae)		Resistance Management: After 2 applications of LIBERTY FLUDI-CYPRO,
Pumpkin Squash Zucchini	Powdery Mildew (Sphaerotheca fuliginea, Erysiphe		alternate with another fungicide with a different mode of action for 2 applications.
And cultivars and/or hybrids of these.	cichoracearum)		

<sup>\*</sup>Additional List of Cucurbits: Cantaloupe; Chayote; Chinese waxgourd; Cucumber; Gourds; Honeydew; *Momordica* spp. (Bitter melon, Balsam apple); Muskmelon; Pumpkin; Squash; Watermelon; Zucchini

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 10 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied up to 1 day before harvest (1-day PHI).

Сгор	Disease	Product Rate oz/Acre (Ib of AI)	Application Instructions
Grapes and Small Fruit Vine	Botrytis (grey	11-14	Begin applications of <b>LIBERTY FLUDI-CYPRO</b> at early bloom. Up
Climbing	mold)	(0.26 -0.33	to three additional applications may be made at berry touch,
Subgroup 13-07F (except fuzzy	(Botrytis	cyprodinil	veraison, or preharvest. Botrytis Bunch Rot is most effectively
kiwifruit)	cinerea)	and	controlled by ground application, using sufficient water volume
		0.17 -0.22	to provide thorough coverage. Thorough coverage of bunches is
Grapes	Sour rot	fludioxonil)	essential. DO NOT apply closer than a 21-day interval.
Amur river grape	(caused by a		
Hardy kiwifruit	fungal		For sour rot, make an application at veraison followed by 1-2
Маурор	complex)		additional applications. DO NOT apply closer than a 21-day
Schisandra berry			interval.
And cultivars and/or			Resistance Management: After 2 applications of LIBERTY FLUDI-
hybrids of these.			CYPRO, alternate with another fungicide with a different mode
			of action for 2 applications.

**Application Instructions:** Application may be made by ground or air. Good coverage is essential for good disease control. Use a minimum of 20 gallons/A spray volume by air. Make no more than two applications by air.

#### **Specific Use Restrictions**

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, or air.
- DO NOT apply more than 1.4 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 21 days
- DO NOT apply within 7 days of harvest (7-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions	
Herbs	Alternaria leaf spot	11-14	Begin applications prior to or at the onset of disease and repeat applications on	
(Dried and	(Alternaria spp.)	(0.26 -0.33	a 7-10 day interval if conditions remain favorable for disease development.	
fresh)*		cyprodinil		
	Botrytis leaf blight	and	Apply in a minimum spray volume of 30 gal/A to obtain thorough coverage.	
	(Botrytis spp.)	0.17 -0.22		
		fludioxonil)	Resistance Management: After 2 applications of LIBERTY FLUDI-CYPRO,	
	Fusarium blight		alternate with another fungicide with a different mode of action for 2	
	(Fusarium spp.)		applications.	

\*Dried and Fresh Herbs: Angelica; Balm; Basil; Borage; Burnet; Chamomile; Catnip; Chervil (dried); Chives; Chives, Chinese; Clary; Coriander (leaf); Costmary; Culantro (leaf); Curry (leaf); Dillweed; Horehound; Hyssop; Lavender; Lemongrass; Lovage, leaf; Marigold; Marjoram; Nasturtium; Parsley (dried); Pennyroyal; Rosemary; Rue; Sage; Savory, summer and winter; Sweet bay; Tansy; Tarragon; Thyme; Wintergreen; Woodruff; Wormwood

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 10 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

#### **Specific Use Restrictions**

- Make no more than two (2)applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of **LIBERTY FLUDI-CYPRO** per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 7 days of harvest (7-day PHI).

Crop	Disease	Product Rate oz/Acre (Ib of AI)	Application Instructions
Leafy Greens Subgroup	Alternaria leaf spot	11-14	Begin applications prior to or at the onset of
4A (except Brassica) and	(Alternaria spp.)	(0.26 -0.33 cyprodinil	disease and repeat applications on a 7-10 day
Leaf Petioles Subgroup		and	interval if conditions remain favorable for disease
4B*	Septoria leaf spot	0.17 -0.22 fludioxonil)	development.
	(Septoria lactucae)		
Arugula			For control of Sclerotinia, make the first
Celery	Gray mold		application at thinning and again two weeks later.
Lettuce, head and leaf	(Botrytis cinerea)		
Parsley			Resistance Management: After 2 applications of
Spinach	Sclerotinia rot		LIBERTY FLUDI-CYPRO, alternate with another
	(Sclerotinia spp.)		fungicide with a different mode of action for 2
And cultivars and/or			applications.
hybrids of these.	Basal rot		
	(Phoma exigua)		
	Suppression: Powdery mildew (Erysiphe cichoracearum)		

<sup>\*</sup>Complete List of Leafy Greens: Amaranth; Arugula; Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum (Edible); Corn Salad; Cress; Dandelion; Dock; Endive (Escarole); Fennel, Florence; Lettuce (Head and Leaf); New Zealand spinach; Orach; Parsley; Purslane; Radicchio; Rhubarb; Spinach; Spinach, vine; Swiss Chard

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 10 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of **LIBERTY FLUDI-CYPRO** per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied on the day of harvest (0-day PHI).

Сгор	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Leaves of Root and	Alternaria Leaf Blight	11-14	Begin applications prior to or at the onset of disease
Tuber Vegetables*	(Alternaria dauci)	(0.26 -0.33 cyprodinil	and repeat applications on a 7-10 day interval if
		and	conditions remain favorable for disease
Beet, garden	Powdery Mildew	0.17 -0.22 fludioxonil)	development.
Beet, sugar	(Erysiphe spp.)		
Carrot			Resistance Management: After 2 applications of
Parsnip			LIBERTY FLUDI-CYPRO, alternate with another
Radish			fungicide with a different mode of action for 2
Sweet Potato			applications.
Turnip			
Yam (true)			

<sup>\*</sup>Complete List of Root and Tuber Vegetables, Leaves: Beet, garden; Beet, sugar; Burdock, edible; Carrot; Cassava; Celeriac; Chicory; Dasheen; Parsnip; Radish; Radish (oriental); Rutabaga; Salsify (including black and Spanish); Sweet potato; Tanier; Turnip; Turnip-rooted chervil; Yam (true)

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 10 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- Radish ONLY Make no more than two (2) applications per year.
- Radish ONLY DO NOT apply more than 28 oz/A of LIBERTY FLUDI-CYPRO per year.
- Radish ONLY DO NOT apply more than 0.66 lb ai/A of cyprodinil-containing products and 0.44 lb ai/A of fludioxonil-containing products per year.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 7 days of harvest (7-day PHI).
- DO NOT allow cattle or other livestock to feed upon the leaves of root and tuber vegetables.

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Onions and Garlic	Botrytis leaf blight or	11-14	Begin applications prior to or at the onset of
Bulb Vegetables	blast	(0.26 -0.33 cyprodinil	disease and repeat applications on a 7-10 day
Crop Group 3-07A and 3-07B*	(Botrytis spp.)	and	interval if conditions remain favorable for disease
		0.17 -0.22 fludioxonil)	development.
Garlic	Stemphylium leaf		For optimal effect on neck rot, apply on a 7-day
Onion, bulb	blight		schedule at the 14 oz rate.
Onion, green	(Stemphylium		
Onions grown for seed	vesicarium)		Resistance Management: After 2 applications of
			LIBERTY FLUDI-CYPRO, alternate
And cultivars and/or	Purple blotch		with another fungicide with a different mode of
hybrids of these.	(Alternaria porri)		action for 2 applications.
	Suppression: Neck rot (Botrytis spp.)  Black Mold (Aspergillus niger)		
	Soilborne diseases	7-14	Apply at the time of planting as an in-furrow spray.
	White rot	(0.5-1.0	
	(Sclerotium	0Z/	
	cepivorum)	1,000 ft	
		row)	
		(0.16 -0.33 cyprodinil	
		and	
		0.11 -0.22 fludioxonil)	
		U.11 -U.22 flualoxonii)	

## \*Complete List of Bulb Vegetables:

**Bulb Onion:** Chinese onion; Dry Bulb onion; Daylilly bulb; Fritillaria bulb; Garlic; Great-headed garlic; Lily bulb; Pearl onion; Potato onion; Serpent garlic; Shallot;

**Green Onion:** Beltsville bunching onion; Chinese chive fresh leaves; Fresh chive leaves; Fritillaria leaves; Fresh onion; Green onion; Hosta elegans; Kurrat; Lady's leek; Leek; Macrostem onion; Shallot fresh leaves; Tree tops onion; Welsh onion tops; Wild leek

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 5 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of **LIBERTY FLUDI-CYPRO** per year.
- **DO NOT** make more than 8 applications at 7 oz or 5 applications at 11 oz, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- For in-furrow applications, DO NOT apply more than 0.68 lb ai/A of fludioxonil-containing products per acre per application.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 7 days of harvest (7-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Pistachio	Botrytis	11-14	Make the first application during early
	(Botrytis spp.)	(0.26 -0.33 cyprodinil and	bloom and repeat applications at 14-day
		0.17 -0.22 fludioxonil)	intervals if conditions remain favorable for
	Alternaria		disease development.
	(Alternaria alternata)		

**Application Instructions:** Application may be made by ground or air. Good coverage is essential for good disease control. Use a minimum of 20 gallons/A spray volume by air. Make no more than two applications by air.

## **Specific Use Restrictions**

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground or air.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 14 days
- DO NOT apply within 7 days of harvest (7-day PHI).

Crop	Disease	Product Rate oz/Acre (Ib of AI)	Application Instructions
Potatoes <sup>[1]</sup>	Brown spot	11-14	Begin applications prior to or at the onset of
<b>Tuberous and Corm</b>	(Alternaria alternate) [1]	(0.26 -0.33 cyprodinil	disease and repeat applications on a 7-10 day
Vegetables		and	interval if conditions remain favorable for
Crop Subgroup 1C*[1]	Early blight (A. solani) [1]	0.17 -0.22 fludioxonil)	disease development.
Sweet Potatoes <sup>[1]</sup>	, ,		Resistance Management: After 2 applications
	Powdery mildew		of LIBERTY FLUDI-CYPRO, alternate with
	(Erysiphe		another fungicide with a different mode of
	cichoracearum) <sup>[1]</sup>		action for 2 applications.
	Septoria leaf spot		
	(Septoria lycopersici) <sup>[1]</sup>		
	Tan spot		
	(Botrytis cinerea) [1]		

\*Additional Vegetables, tuberous and corm subgroup 1C: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (Taro), Ginger, Leren, Tanier, Turmeric, Yam (bean and true), and cultivars and/or hybrids of these

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 5 gallons/A/spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

## **Specific Use Restrictions:**

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 14 days of harvest (14-day PHI).

## [1][Not for Use in California]

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Root Vegetables except	Alternaria Leaf Blight	11-14	Begin applications prior to or at the onset of disease
Sugar beet*	(Alternaria dauci)	(0.26 -0.33 cyprodinil and	and repeat applications on a 7-10 day interval if conditions remain favorable for disease
Carrot	Powdery Mildew	0.17 -0.22 fludioxonil)	development.
Beet, garden	(Erysiphe spp.)		
Ginseng			Resistance Management: After 2
Horseradish			applications of LIBERTY FLUDI-CYPRO, alternate
Parsnip			with another fungicide with a different mode of
Radish			action for 2 applications.
Radish (oriental)			
Rutabaga			
Turnip			

<sup>\*</sup>Additional Root and Tuber Vegetables: Burdock, edible; Celeriac; Chicory; Salsify (including black and Spanish); Skirret; Turnip-root parsley; and Turnip-rooted chervil.

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 5 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- Radish ONLY Make no more than two applications per year.
- Radish ONLY DO NOT apply more than 28 oz/A of LIBERTY FLUDI-CYPRO per year.
- Radish ONLY DO NOT apply more than 0.66 lb ai/A of cyprodinil-containing products and 0.44 lb ai/A of fludioxonil-containing products per year.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- DO NOT apply within 7 days of harvest (7-day PHI).
- DO NOT allow cattle or other livestock to feed upon the leaves of root and tuber vegetables.

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Strawberry and Berry,	Gray Mold	11-14	Begin application at or before bloom and continue on a 7-
Low Growing	(Botrytis cinerea)	(0.26 -0.33 cyprodinil and	10 day interval.
Subgroup 13-07G		0.17 -0.22 fludioxonil)	
(except Cranberry)*	Powdery mildew		Resistance Management: After 2 applications of LIBERTY
	(Sphaerotheca		FLUDI-CYPRO, alternate with another fungicide with a
Strawberry	macularis)		different mode of action for 2 applications.
	Anthracnose (Colletotrichum spp.)		
And cultivars and/or	Root and crown	5-8 oz	Apply as a preplant dip to strawberry roots and crowns at
hybrids of these.	anthracnose at	per 100	the rate of 5 to 8 oz
	planting	gal	per 100 gallons of water for suppression
	(Colletotrichum	water	of root and crown rot caused by anthracnose. Wash
	spp.)	(0.12 -0.19 cyprodinil and	transplants to remove excess soil prior to dipping.
		0.08 -0.13 fludioxonil)	Completely immerse planting stock in dip solution. Dip or
			expose plants for a minimum of 2 minutes or a maximum
			of 5 minutes. Completely drain the transplants after dip.
			DO NOT reuse solution. Dispose of dip solution according
			to local regulations.
			Plant treated plants as quickly as possible. For continued
			anthracnose control, follow with foliar applications of
			LIBERTY FLUDI-CYPRO beginning 2-3 weeks after
			transplant.

<sup>\*</sup>Additional Low Growing Berries: Bearberry; bilberry; cloudberry; muntries; partridgeberry; and cultivars and/or hybrids of these

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 5 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- Make only one pre-plant dip application per crop.
- Maximum Single Application Rate: DO NOT exceed the maximum rate listed in the table.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 11 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied on the day of harvest (0-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Tomatoes and Fruiting	Early Blight	11-14	Begin applications prior to or at the onset of
Vegetable	(Alternaria solani)	(0.26 -0.33 cyprodinil	disease and repeat applications on a 7-10 day
Crop Group 8-10*		and	interval if conditions remain favorable for
	Grey Mold	0.17 -0.22 fludioxonil)	disease development.
Eggplant	(Botrytis cinerea)		
Okra			Resistance Management: After 2 applications
Pepper, bell	Powdery Mildew		of LIBERTY FLUDI-CYPRO, alternate with
Pepper, nonbell	(Leveillula taurica)		another fungicide with a different mode of action for 2 applications.
	Target Spot (Corynespora cassicola)		

<sup>\*</sup>Complete List of Fruiting Vegetable Crop Group 8-10: African eggplant; Bush tomato; Cocona; Currant tomato; Eggplant; Garden huckleberry; Goji berry; Groundcherry; Martynia; Naranjilla; Okra; Pea eggplant; Pepino; Pepper, bell; Pepper, nonbell; Roselle; Scarlet eggplant; Sunberry; Tomatillos; Tomato; Tree tomato and cultivars and/or hybrids of these.

**Application Instructions:** Application may be made by ground, air, or chemigation. Good coverage is essential for good disease control. Use a minimum of 10 gallons/A spray volume by air. Make no more than two applications by air. For chemigation, apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, air, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied on the day of harvest (0-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Tropical Fruits*	Botrytis fruit rot	11-14	Make the first application during early
Avocado	(Botrytis spp.)	(0.26 -0.33 cyprodinil and	bloom and repeat on 7-10 day intervals if
Dragon Fruit		0.17 -0.22 fludioxonil)	conditions remain favorable for disease
Guava	Alternaria fruit rot		development.
Longan	(Alternaria spp.)		
Lychee			Resistance Management: After 2 applications of
Mamey sapote	Anthracnose		LIBERTY FLUDI-CYPRO, alternate with another
Mango	(Colletotrichum		fungicide with a different mode of action for 2
Papaya	spp.)		applications.
Passionfruit			
Spanish lime			
Starfruit			

<sup>\*</sup>Tropical Fruits: Acerola; Avocado; Black Sapote; Canistel; Dragon Fruit; Feijoa; Guava; Jaboticaba; Longan; Lychee; Mamey Sapote; Mango; Papaya; Passionfruit; Pulasan; Rambutan; Sapodilla; Spanish lime; Star apple; Starfruit; Wax Jambu

**Application Instructions:** Application may be made by ground or air. Good coverage is essential for good disease control. Use a minimum of 20 gallons/A spray volume by air. Make no more than two applications by air.

#### **Specific Use Restrictions**

- Make no more than two (2) applications by air.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) in a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- DO NOT make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground or air.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied on the day of harvest (0-day PHI).

Crop	Disease	Product Rate oz/Acre (lb of Al)	Application Instructions
Watercress	Cercospora leafspot (Cercospora spp.)  Sclerotinia white mold	11-14 (0.26 -0.33 cyprodinil and 0.17 -0.22 fludioxonil)	Begin applications prior to or at the onset of disease and repeat applications on a 7-10 day interval if conditions remain favorable for disease development.
	(Sclerotinia spp.)  Rhizoctonia rot (Rhizoctonia solani)		Resistance Management: After 2 applications of <b>LIBERTY FLUDI-CYPRO</b> , alternate with another fungicide with a different mode of action for 2 applications.

**Application Instructions:** Applications may be made by ground or chemigation. Good coverage is essential for good disease control. For chemigation apply in 0.1-0.25 inches/A of water. Chemigation with excessive water may lead to a decrease in efficacy.

#### **Specific Use Restrictions**

- Applications can be made to a dry bed only. DO NOT apply directly to water.
- DO NOT apply more than 14 fl oz/A (0.33 lb ai cyprodinil and 0.22 lb ai fludioxonil) In a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 56 oz/A of LIBERTY FLUDI-CYPRO per year.
- **DO NOT** make more than 5 applications at the lowest rate, or 4 applications at the highest rate per year total by ground, or chemigation.
- DO NOT apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per year.
- Minimum Retreatment Interval = 7 days
- May be applied on the day of harvest (0-day PHI).

## **CROP USE DIRECTIONS FOR POST-HARVEST APPLICATIONS**

## Pomegranates[\*]

Use **LIBERTY FLUDI-CYPRO** as a post-harvest dip for the control of Botrytis fruit rot and Gray mold in pomegranates.

<b>Application Method</b>	Disease	Rate (oz)	Application Instructions
In-Line Dip/Drench	Botrytis fruit rot <sup>[*]</sup> Gray mold <sup>[*]</sup>	19.2 oz/100 gal (0.45 cyprodinil and 0.3 fludioxonil)	<ul> <li>Mix 19.2 oz of LIBERTY FLUDI-CYPRO in 100 gal of water, wax/emulsion, or aqueous dilution of wax/oil emulsion.</li> <li>Dip for approximately 30 seconds and allow fruit to</li> </ul>
			drain.

**Application Instructions:** For maximum decay control, treat fruit once before storage and once after storage, just prior to marketing. Ensure the **LIBERTY FLUDI-CYPRO** solution remains in suspension by using agitation.

#### Specific Use Restrictions

- DO NOT make more than two post-harvest applications of fludioxonil-containing products to the fruit.
- DO NOT apply more than 19.2 fl oz/A (0.45 lb ai cyprodinil and 0.3 lb ai fludioxonil) In a single application of LIBERTY FLUDI-CYPRO.
- DO NOT apply more than 38.4 oz (0.9 lb ai cyprodinil and 0.6 lb ai fludioxonil) of LIBERTY FLUDI-CYPRO.

[\*][Not for Use in California]

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a tightly closed container in a cool, dry place.

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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 HANDLING: [less than or equal to 50 pounds]

**Nonrefillable Container:** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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