

U.S. ENVIRONMENTAL PROTECTION AGENCY

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

89168-128

EPA Reg. Number:

Date of Issuance:

12/28/21

Term of Issuance:

Unconditional

Name of Pesticide Product:

LIBERTY PERM 1.5G

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Karen Murphy Regulatory Manager Liberty Crop Protection, LLC 1880 Fall River Drive, Suite 100 Loveland, CO 80538

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.
- 2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:	Date:
Elizabeth Fertich, Product Manager 04 Invertebrate & Vertebrate Branch 1, Registration Division (7505P)	12/28/21

Office of Pesticide Programs

EPA Form 8570-6

- 3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 89168-128."
- 4. 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 04/07/2021
- Alternate CSF 1 dated 04/07/2021
- Alternate CSF 2 dated 04/07/2021
- Alternate CSF 3 dated 04/07/2021

If you have any questions, please contact Kaitlin Saunders by phone at 202-566-2890, or via email at Saunders.Kaitlin@epa.gov.

Enclosure

RESTRICTED USE PESTICIDE

Due to Toxicity to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

PERMETHRIN GROUP 3A INSECTICIDE

LIBERTY PERM 1.5G

Active Ingredient:	By Wt
Permethrin ^{1,2}	1.5%
Other Ingredients	. 98.5%
TOTAL	100.0%
1 (3 Dhanovynhanyl)mathyl (+) cis trans 3 (2.2 dichloroothanyl) 2.2 dimathyloyclopropanacork	boxylate

ACCEPTED

12/28/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2010 2010 100

89168-128

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
If Inhaled	Move person to fresh air.
	• If person is not breathing, call 911or an ambulance, then give artificial respiration,
	preferably by mouth-to-mouth, if possible.
	• Call a poison control center or doctor for treatment advice.
If on Skin or	• Take off contaminated clothing.
Clothing	• Rinse skin immediately with plenty of water for 15-20 minutes.
	• Call a poison control center or doctor for treatment advice.
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 for treatment advice.
If	• Call a poison control center or doctor immediately for treatment advice.
Swallowed	• Have person sip a glass of water if able to swallow.
	• Do not induce vomiting unless told to do so by the poison control center or doctor.
	• Do not give anything by mouth to an unconscious person
	HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-424-9300** for medical treatment information

EPA Reg. No.	89168-XX
EPA Est. No.:	
Net Weight:	lb

Manufactured For:

Liberty Crop Protection LLC 1880 Fall River Drive, Suite 100 Loveland CO, 80538

122721

⁽³⁻Phenoxyphenyl)methyl (±) cis-trans 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

 $^{^2}$ cis/trans ratio: Max. 55% (\pm) cis and min. 45% (\pm) trans

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are natural rubber.

Applicators and other handlers must wear:

- long-sleeve shirt and long pants, shoes plus socks, and
- waterproof gloves

See engineering controls for more requirements.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

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

Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

Environmental Hazards

This product is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily adsorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes towards adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not Separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This pesticide is highly toxic to bees exposed to direct treatment or to residues in/on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are visiting the treatment area.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

USE RESTRICTIONS

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) 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, shoes plus socks, and Chemical-resistant gloves made out of any waterproof material.

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

RESISTANCE- MANAGEMENT RECOMMENDATIONS

For resistance-management, LIBERTY PERM 1.5G contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to LIBERTY PERM 1.5G and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of LIBERTY PERM 1.5G or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of LIBERTY PERM 1.5G per season.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical
 information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other
 chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Liberty Crop Protection at 844-425-8488. You can also contact your pesticide distributor or university extension specialist to report resistance.

VEGETATIVE FILTER STRIPS

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing permethrin onto fields where a maintained vegetative buffer strip of at **least 25 feet** exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
 - o For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
 - o The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
 - o Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.
 - o A functional terrace system is maintained on the area of application.
 - o Water and sediment control basins for the area of application are functional and maintained.
 - o The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175

Almonds

Insects	Rate of	Method of
Controlled	Application	Application
Ants (excluding fire, pharaoh, carpenter and harvester)	16.6 lb (0.25 lb permethrin) per acre	Apply as a broadcast treatment by ground equipment or aircraft when ants appear. Overhead moisture following application will enhance activity.

Restrictions

- Do not apply more than 0.50 lb active ingredient (33.2 lb product) per acre during hull split.
- Do not apply more than 0.75 lb active ingredient (49.8 lb product) per acre
- per season.
- Do not graze livestock in treated areas.
- Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.
- Pre-Harvest Interval (PHI) = 7 days

Corn (Field), Field Corn Grown for Seed, Popcorn

Insects Controlled	Rate of Application	Method of Application
Preemergent Use: Armyworms spp. Cutworms Stalk Borers	6.7 to 10 lb (0.1 to 0.15 lb permethrin) per acre as a broadcast application	LIBERTY PERM 1.5G may be applied as a preplant incorporated, pre-emergence, or at planting time application. Apply as a broadcast application by ground or air or 4-15 inch band.
Stark Borers	OR	Ensure linear row calculations used are proportional to the standard Band Width/Row Width formula to adjust rates for different band widths or row spacings. Use higher rates of LIBERTY PERM 1.5G
	8 to 12 oz per 1,000 linear feet row (based on a 4" band and 40" row spacing)	when incorporating into the soil without exceeding the required dosage.

Foliar Use:	6.7 to 10 lb	When treating for Armyworms, Cutworms, European Corn Borer,
Armyworms spp.	(0.1 to 0.15 lb permethrin)	Southwestern Corn Borer and Western Bean cutworm apply when
Corn Borer	per acre as a broadcast	eggs begin to hatch. For treatment of Stalk Borers, LIBERTY PERM
European	application	1.5G must be applied when or shortly before the Stalk Borer larvae
Southwestern		are moving into the corn from the surrounding weeds and grasses.
Cutworms		Mowing or burndown herbicide is suggested to initiate movement of
Stalk Borers		Stalk Borer larvae.
Webworm		
		Apply by aircraft broadcasting over corn plants or with ground
		equipment by directing the granule into the whorl.

Restrictions

- Do not apply more than to 0.45 lb active ingredient (30 lb product) per acre per season.
- Do not make treatments less than 7 days apart or apply less than 30 days prior to harvest of grain or fodder (stover).
- Forage may be harvested on the day of application.
- Pre-Harvest Interval (PHI) = 0 day

Corn (Field), Field Corn Grown for Seed, Popcorn (At Plant Use)

Insects Controlled	Rate of Application		Method of Application
Armyworms Cutworms	8 oz per 1,000 linear feet of row		arrow, band or T- band treatment using a minimum 4 able below to determine the LIBERTY PERM 1.5G
Seed Corn Maggot* Wireworm* * Not for use in California.	inical feet of fow	needs for each ac	
Row Spacings (inch LIBERTY PERM 1.	nes) 40 5G (lb ai per acre) 0.10	30 0.15 (<u>20</u> 0.15

Restrictions

• Do not apply more than 0.15 lb a.i./A (10 lbs product/A).

Corn, Sweet

Insects	Rate of	Method of
Controlled	Application	Application
Preemergent	6.7 to 13.3 lb	LIBERTY PERM 1.5G may be applied as a preplant incorporated,
Use:	(0.1 to 0.2 lb active)	pre-emergence, or at planting time application. Apply as a broadcast
Armyworms spp.	per acre as a	application by ground or air or 4-15 inch band.
Cutworms	Broadcast application	
Stalk Borers	OR	Ensure linear row calculations used are proportional to the standard Band Width/Row Width formula to adjust rates for different band widths on row specimes. Use higher rates of LIDEDTY PERM 1.5C
	8 to 16 oz per	widths or row spacings. Use higher rates of LIBERTY PERM 1.5G when incorporating into the soil without exceeding the required
	1,000 linear feet row	dosage.
	(based on a 4" band and	dosuge.
	40" row spacing)	
Foliar Use:	6.7 to 13.3 lb	When treating for Armyworms, Cutworms, Southwestern Corn Borer,
Armyworms spp.	(0.1 to 0.2 lb active)	and European Corn Borer apply when eggs begin to hatch.
Corn Borer	per acre	
European		For treatment of Stalk Borers, LIBERTY PERM 1.5G must be
Southwestern		applied when or shortly before the Stalk Borer larvae are moving into
Cutworms		sweet corn from the surrounding weeds and grasses. Mowing or
Stalk Borers		burndown herbicide is suggested to initiate movement of Stalk Borer
Webworms		larvae. Apply by aircraft by broadcasting over sweet corn plants or with ground equipment by directing the granule into the whorl.

Restrictions

- Do not apply more than 0.8 lb active ingredient (53.2 lb product) per acre per season.
- Do not make treatments less than 3 days apart.
- Pre-Harvest Interval (PHI) = 1 day

Corn, Sweet (At Plant Use)

Insects Controlled	Rate of Application		Method Applicat	
Armyworms spp. Cutworms Seed Corn Maggot* Wireworm	8 ounces per 1,000 linear feet of row			and treatment using a minimum 4" the LIBERTY PERM 1.5G needs
* Not for this use in California.				
Row Spacings	(inches)	40 30	20	
LIBERTY PERM	1 1.5G (lb ai per acre) 0	.10 0.15	0.20	
Restrictions				

• Do not apply more than 0.20 lb a.i./A (13.33 lb product/A).

Pistachios*

Insects	Rate of	Method of
Controlled	Application	Application
Ants (excluding fire, pharaoh, carpenter and harvester)	20 lb (0.3 lb active) per acre	Apply as a broadcast treatment by ground equipment or aircraft when ants appear. Overhead moisture following application will enhance activity.

Restrictions

- Do not apply more than 0.9 lb active ingredient (60 lb product) per acre per season.
- Do not apply after 10% hull split.
- Do not graze livestock in treated areas.
- Do not feed cover crops from treated areas to livestock.
- Do not make applications less than 10 days apart.
- Pre-Harvest Interval (PHI) = 0 days
- * Not for this use in California.

Corn Insecticide Applicator Settings

LIBERTY PERM 1.5G is a dense, free flowing insecticide requiring accurate equipment calibration to apply the required amount per acre. Calibrate your planter to the speed at which you plan to travel during planting operation. Follow the manufacturer's instructions for the equipment you are using when calibrating and making applications.

Corn Application Rates

When the granular application equipment is set to deliver LIBERTY PERM 1.5G at a rate of 12 oz per 1,000 linear feet (0.15 lb active per acre) the total amount applied per acre will vary depending on row spacings.

STORAGE AND DISPOSAL

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

Pesticide Storage

Do not store in or around the home.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (transportation and spills): (800) 424-9300.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

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

Container Disposal

Paper and plastic bags: Non-refillable. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or by burning. Do not burn unless allowed by state or local authorities. If burned, stay out of smoke.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LIBERTY CROP PROTECTION LLC or Seller, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold LIBERTY CROP PROTECTION LLC and Seller harmless for any claims relating to such factors.

LIBERTY CROP PROTECTION LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or LIBERTY CROP PROTECTION LLC, and TO THE EXTENT CONSISTENT WITH APPLICABLE LAW Buyer and User assume the risk of any such use. LIBERTY CROP PROTECTION LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither LIBERTY CROP PROTECTION LLC nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF LIBERTY CROP PROTECTION LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF LIBERTY CROP PROTECTION, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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