



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 9, 2019

Meshea Brodie
Product Registration Manager
BASF Corporation
P.O. Box 13528 26 Davis Drive
Research Triangle Park, NC 27709

Subject: Registration Review Label Mitigation for Chlorfenapyr
Product Name: TC-307
EPA Registration Number: 499-544
Application Dates: August 20, 2019
Decision Numbers: 556633

Dear Meshea Brodie:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Chlorfenapyr Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at Stanton.Darius@EPA.gov.

Sincerely,

A handwritten signature in blue ink, appearing to be "Linda Arrington", written in a cursive style.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

{Note to PM: Italicized text enclosed in "{ }" is information for the reviewer and not part of the label.
[Bracketed information is optional text.] Text within brackets and separated by "/" denotes and/or options.}



Group 13 Insecticide

TC-307

Alternate Brand Names:

- Pylon® TR (with descriptor: Total Release Miticide-Insecticide)
- Pylon® TR (with descriptor: Total Release Miticide/Insecticide)

One can treats up to 3,000 square feet (50,000 cubic feet)

For Use on Ornamental Crops and Fruiting Vegetables in Commercial Greenhouses

Kills: Mites and Caterpillars
Suppresses: Thrips

Active Ingredient:	
Chlorfenapyr	4.5%
Other Ingredients:	95.5%
Total:	100.0%

EPA Reg. No. 499-544

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

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.)

Refer to full label for **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

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FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
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 BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING. Causes substantial but temporary eye injury. **DO NOT** get in eyes or on clothing. Wear protective eye-wear (goggles, face shield or safety glasses). Breathing spray mist may be harmful. Avoid breathing vapors or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (such as barrier laminate and butyl rubber ≥ 14 mils)
- Socks and shoes
- Protective eyewear
- Wear a minimum of a NIOSH approved particulate filtering facepiece respirator with any N, R, or P filter (TC-84A); OR an elastomeric NIOSH approved particulate respirator with any N, R or P filter (TC-84A); OR a NIOSH approved powered air purifying respirator with an HE filter (TC-21C).

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. Remove and wash contaminated clothing before reuse.

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 clothing/PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Physical or Chemical Hazards

Flammable. Contents under pressure. Keep away from heat, sparks and open flame. **DO NOT** puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause a fire or explosion if not used properly. Follow the **Directions For Use** on this label very carefully.



Highly Flammable Ingredient
Ingrediente Altamente Inflamable

Directions For Use

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

Contents of container must be at room temperature before use; therefore, cans must be stored at room temperature (above 65°F) for 24 hours before application. Elevate the container so that the top of the can is above the top of plant canopy and clear a 3 foot area around the can. Make sure spray is unobstructed by foliage or other physical objects in order to obtain maximum distribution of fog.

Notice: Good greenhouse management must overrule the use of this product when conditions that would harm plant foliage or flowers might be created by tightly closing greenhouses. **DO NOT** use this product in greenhouses with unvented or defective gas heating systems or when open combustion exists.

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AGRICULTURAL USE REQUIREMENTS

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.

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 with no ventilation. Alternatively, you may ventilate the treated areas after four hours per 40 CFR 170.110(c)(3) until after:

- 10 air exchanges are completed; or
- 4 hours of ventilation using vents, windows or other passive ventilation; or
- 2 hours of ventilation using fans or other mechanical ventilating systems.

Using one of these ventilation methods is equivalent to the REI of 12 hours with no ventilation, and no PPE is required after this time.

Early entry to treated areas is permissible after 4 hours (per 40 CFR 170.112) to perform short-term activities, such as ventilation procedures, provided personal protective equipment is worn. PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, chemical-resistant gloves, such as barrier laminate or butyl rubber, shoes plus socks.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

Pesticide Storage

DO NOT store below 32°F. Store in a cool, dry (preferably locked) area, away from heat or open flame, in a place that is inaccessible to children and animals.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

Container Handling

DO NOT puncture or incinerate! **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Contact your local solid waste agency for disposal instructions.

In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Application Information

Use Sites

Ornamental crops and fruiting vegetables in commercial greenhouses including:

- Bedding plants
- Containerized plants
- Cut flowers
- Evergreens
- Flowering plants
- Foliage plants
- Ground covers
- Non-bearing fruit and nut trees and vines
- Ornamental trees and shrubs
- Vegetables

Mode of Action

The active ingredient in this product, chlorfenapyr, is a member of the class of miticides-insecticides known as pyrroles (**Group 13**). This product is effectively introduced to the insect by contact and feeding activity.

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Resistance Management

This product’s active ingredient targets cellular respiration and is considered to be an uncoupler of oxidative phosphorylation via disruption of the proton gradient by the Insecticide Resistance Action Committee (IRAC) under **Group 13**. Multiple uses of a miticide or insecticide with a single given mode of action can result in the development of resistance.

DO NOT apply this product more than three (3) times during a crop growing cycle.

DO NOT make more than two (2) consecutive applications of this product before rotating to a chemical with a different mode of action.

DO NOT make sequential applications to crops unless applied in combination with other effective miticides/ insecticides with a different mode of action.

Crop protection chemicals should always be used in integrated pest management programs that are suitable for the crop pest complex involved. Any pest management program undertaken should coordinate different chemistry classes of insecticides in their spray schedules, ensure thorough coverage of targeted crop/pest(s), use proper chemical rates per label directions, monitoring pest populations and other factors as conditions warrant. Consult your Cooperative Extension Service or BASF sales representative for suggestions on minimizing insect resistance.

Preapplication Directions

Apply this product when pest or damage typical of indicated pest is observed. Shut off all exhaust fans and close all windows, doors and ventilators. Turn off all ignition sources such as pilot lights (shut off gas valves), other open flames or running electrical appliances that cycle off and on. Prepare a 3 foot plant free zone in which to place container. Elevate the container so that the top of the can is above the top of plant canopy. Make sure spray is unobstructed by foliage or other physical objects in order to obtain maximum distribution of fog. Common practice is to place the container on a stool or overturned pot to elevate it to allow for unobstructed release. To treat hanging baskets, an empty basket can be used to hold the container and elevate it to the hanging basket level. Low volume horizontal air flow may help optimize performance. Apply when foliage is dry and greenhouse temperature is between 60°F to 80°F. Keep container at room temperature (about 65°F). Prior to a full scale application, run a small scale test and observe for plant damage and performance. See **Plant Safety Information** for more details.

Total Release Dosage

For dosage by pest, see **Table 1. Pests Controlled by [TC-307/Alternate Brand Name]**. Thorough coverage is achieved by the normal air movement within a greenhouse. The chemical will move around and throughout the plant foliage due to the small particle size produced and the normal ebb and flow movement of the air. Both top and bottom of the plant foliage is covered with particles during

application. When applying to fruiting vegetables, allow at least 7 days between each application, and **DO NOT** use on tomato varieties with a diameter <1 inch when mature. See **Table 2. Vegetables Approved for [TC-307/Alternate Brand Name] Use** for a full list of vegetables on which this product can be used. **DO NOT** use in small, enclosed spaces such as closets, cabinets or under counters or tables. Use of a fogger in an enclosed space may cause it to explode, resulting in injury to people or damage to property.

To Start Fogging

Hold the container facing away from the body and depress the actuator until it is locked down. Once the container has been activated, place the container in the plant-free zone, vacate the structure immediately, and close the door.

Table 1. Pests Controlled by [TC-307/Alternate Brand Name]

Target Pest	Use Rate per square feet of plant foliage	
	Low Rate	High Rate
Mites , including Two-Spotted Spider mite (<i>Tetranychus urticae</i> and other <i>Tetranychus</i> sp.), Broad mite (<i>Polyphagotarsonemus latus</i>), Citrus budmite (<i>Eriophyes pallidus</i>), Rust mite (<i>Phyllocoptruta</i> sp., <i>Epitrimerus</i> sp., and <i>Aculus</i> sp.) This product does not control egg mite stage.	1 can per 3,000 square feet Repeat applications can be made at 7 day intervals.	2 cans per 3,000 square feet Repeat applications can be made at 7 day intervals.
Caterpillars , including immature and adult stages of caterpillar such as Beet armyworm (<i>Spodoptera exigua</i>), Cabbage looper (<i>Trichoplusia ni</i>), and Soybean looper (<i>Pseudoplusia includens</i>)		
Thrips , including immature stage of Chili thrips (<i>Scirtothrips dorsalis</i> Hood) and Western Flower thrips (<i>Frankliniella occidentalis</i>)		

Plant Safety Information

The phytotoxic potential of this product has been assessed on a wide variety of common ornamental plants with no phytotoxicity observed. Not all plant species, varieties, and cultivars have been tested for tolerance to this product or pesticide treatments preceding or following those of this product.

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Local conditions can also influence plant tolerance and may not match those under which BASF has conducted testing. Test the product on a sample of the plants to be treated to ensure that a phytotoxic response will not occur prior to large-scale use. Because many cultivars within a plant species vary in tolerance to chemical applications and growing conditions, the grower must recognize these differences and test the product accordingly. At a minimum, always test a small group of representative plants for tolerance to this product under local growing conditions and before large-scale use.

Grower assumes responsibility for testing species suitability under local growing conditions by treating a small number of plants at the specified rate. At a minimum, this should include evaluating treated plants for several weeks following treatment for possible injury or other effects. To the extent consistent with applicable law, by applying this product, the user assumes responsibility for any crop damage or other liability associated with factors beyond the manufacturer’s control, such as weather, presence of other materials, and manner or use of application. Follow all restrictions and limitations in this label.

To minimize the risk of injury to ornamentals:

- Avoid application to plugs in early stages of development (1 to 2 leaf stage) as phytotoxicity may develop to some tender crops. If application is intended for this plant state, test this product on a small number of plants before doing large scale treatments because phytotoxicity can occur to plugs at the 1 to 2 leaf stage.
- Make applications prior to blooming or avoid blooms where possible.
- Apply during the cooler parts of the day.

Plants listed in **Table 3. Plant Species Not Tolerant to [TC-307/Alternate Brand Name]** have been found, under certain circumstances, to be less tolerant to this product. Applications to these crops are made at user risk.

Table 2. Vegetables Approved for [TC-307/Alternate Brand Name] Use

Common Name	Scientific Name
Eggplant	<i>Solanum melongena</i>
Groundcherry	<i>Physalis</i> spp.
Pepinos	<i>Solanum muricatum</i>
Peppers	<i>Capsicum</i> spp.
Tomatillo	<i>Physalis ixocarpa</i>
Tomato*	<i>Lycopersicon esculentum</i>
* DO NOT use on tomato varieties with a diameter <1 inch when mature.	

Table 3. Plant Species Not Tolerant to [TC-307/Alternate Brand Name]

Common Name	Scientific Name
Dianthus (including carnations, pinks, and Sweet William varieties)	<i>Dianthus</i> spp.
Florist azalea	<i>Rhododendron</i> spp.
Kalanchoe	<i>Kalanchoe blossfeldiana</i>
Poinsettia	<i>Euphorbia pulcherrima</i>
Roses	<i>Rosa</i> spp.
Salvia	<i>Salvia</i> spp.
Zinnia	<i>Zinnia</i> spp.

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, 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 environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION (“BASF”) or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER’S EXCLUSIVE REMEDY AND BASF’S AND SELLER’S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

PCS915

Pylon is a registered trademark of BASF.

Contains no CFCs or other ozone depleting substances.

Federal regulations prohibit CFC propellants in aerosols.



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We create chemistry