



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 8, 2022

Sarah Kristine Caffery  
Pesticide Product Program Manager  
Indiana State Chemist and Seed Commissioner  
Purdue University  
175 South University Street  
West Lafayette, IN 47907-2063

Subject: FIFRA 24(c) Registration –SLN Acknowledgment Letter  
SLN Registration Number: IN220001  
EPA Decision Number: 583357  
SLN Expiration Date: 12/31/2027  
Parent EPA Reg. No.: 100-993  
Product Name: Reflex Herbicide

Dear Ms. Caffery:

This letter acknowledges receipt for the above-listed Special Local Need (SLN) registration pursuant to Section 24(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. This original SLN registration permits use of Reflex Herbicide (fomesafen) on Pea (succulent), bell pepper (transplanted), non-bell pepper (transplanted), pumpkin, tomato (transplanted), summer squash, winter squash, and watermelon to control weeds in the state of Indiana. This SLN will expire on December 31, 2027.

The Agency has completed a review of this use and acknowledges the State's SLN registration. Please inform the registrant that we have placed a copy of the SLN label in our files. If you have any questions, please contact Maya Wheeler by phone at (202)-566-2957 or via email at [wheeler.maya.b@epa.gov](mailto:wheeler.maya.b@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Eric W. Bohnenblust", is located below the "Sincerely," text.

Eric W. Bohnenblust, Ph.D., Chief  
Minor Use and Emergency Response Branch  
Registration Division  
Office of Pesticide Programs

CC: USEPA Region 5 Coordinator- Seth Dibblee  
USEPA Region 5 Tribal Coordinator- Amy Mysz



# ITERA

## Section 24(c) Special Local Need Label

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF INDIANA

### Reflex® Herbicide

For Control of Weeds in Pea (Succulent); Bell Pepper (Transplanted), Non-Bell Pepper (Transplanted); Pumpkin; Tomato (Transplanted); Summer Squash, Winter Squash; Watermelon

EPA Reg. No. 100-993  
EPA SLN No. IN-220001

This label expires and must not be distributed or used in accordance with this SLN registration after December 31, 2027

### SYNGENTA'S SPECIAL CONDITIONS, RISKS OF USE AND DISCLAIMER FOR USE OF REFLEX HERBICIDE ON CROPS ON THIS 24(c) LABEL

#### IMPORTANT- READ BEFORE USE

THESE CONDITIONS RISKS OF USE AND DISCLAIMER ARE REQUIRED BY SYNGENTA CROP PROTECTION LLC AND NOT SPECIFIED BY U.S. EPA OR THE STATE OF INDIANA

USE OF REFLEX HERBICIDE (THE "PRODUCT") ON CROPS LISTED (THE "CROP") FOR THIS SPECIAL LOCAL NEED MAY RESULT IN CROP INJURY, CROP YIELD REDUCTION AND/OR CROP LOSS AS FURTHER DISCUSSED BELOW. READ AND UNDERSTAND THESE CONDITIONS AND RISKS OF USE FOR SPECIAL LOCAL NEED BEFORE USING THE PRODUCT ON THE CROP. SYNGENTA RECOMMENDS THAT THE USER TEST THIS PRODUCT TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.

Syngenta Crop Protection, LLC makes the Product available for use in the manner described in this Section 24(c) Labeling on the basis that, in the sole opinion of the user, the benefits and utility derived from the use of the Product on the Crop outweigh the potential risk of Crop injury, Crop yield reduction or Crop loss.

The decision to use this Product in the manner described in this Section 24(c) Labeling must be made by each individual user on the basis of anticipated benefits versus (i) the potential risk of Crop injury, Crop yield reduction and Crop loss, (ii) the severity of the target pest infestation, (iii) the cost and availability of alternative pest controls and (iv) any other relevant factors. Syngenta recommends that the user test this Product to determine its suitability for such intended use.

By purchasing the Product for use, or using the Product in the manner described in this Section 24(c) Labeling, you acknowledge and accept that, to the extent consistent with applicable law:

- 1) you assume all risk of Crop injury, Crop yield reduction and Crop loss;
- 2) Syngenta Crop Protection, LLC do not make, and do not authorize any agent or representative to make, any representations or recommendations regarding the use of this Product on the Crop other than the statements on this Section 24(c) labeling;
- 3) Syngenta Crop Protection, LLC do not make, and do not authorize any agent or representative to make, any warranties, express or implied, with respect to the use of the Product on the Crop and disclaim all warranties, expressed or implied, including any implied warranty of merchantability;
- 4) Syngenta Crop Protection, LLC disclaim all liability for any damages, losses, expenses, claims or causes of actions arising out of or relating to Crop injury, Crop yield reduction and/or Crop loss;
- 5) these conditions and Risks of Use for Special Local Need supersede any contrary representations or recommendations by Syngenta Crop Protection, LLC or their respective agents or representatives, and any provisions in or on any Product literature or labeling including any provisions on the label affixed to the Product container.

**If these Conditions and Risks of Use for Special Local Need are not acceptable, the unopened Product may be returned to the seller for a refund or used for a different labeled use in accordance with the label affixed to the Product container.**

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

#### **DIRECTIONS FOR USE**

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This label must be in the possession of the user at the time of application.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA-registered label.

#### **Crop Group 6 – Legume Vegetables (Succulent or Dried)**

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##### **Pea (Succulent)**

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**Note:** Pea (succulent) varieties may vary in their response to Reflex Herbicide. If soils are cold and wet during pea germination and emergence, the use of Reflex Herbicide may delay maturity and/or reduce yields. When using Reflex Herbicide for the first time on a particular variety, always determine crop tolerance before using. Plant only high quality seed and do not plant when unfavorable growing conditions exist.

Reflex Herbicide rates below 1 pt./A are not intended to be used as a stand-alone weed control program and should be used with other herbicides and/or other methods of weed control that support weed resistance management. Refer to the Reflex Herbicide federal label for a complete list of weeds controlled.

##### **Broadcast Application**

Apply Reflex Herbicide at 0.5-1 pt/A (0.125-0.25 lb a.i./A) preemergence to weeds and crop. Overhead irrigation or rainfall after application and prior to crop emergence will improve weed control and may reduce the potential for crop injury due to splashing.

##### **Tank Mixtures with Other Products Registered for Pea (Succulent)**

Reflex Herbicide may be tank mixed with other pesticide products registered for use in succulent

pea. Follow the directions for use, observe the stated precautions, and abide by the limitations and restrictions on the most restrictive of the product labels. If you have no previous experience mixing these products under your conditions, perform a jar test to ensure compatibility before attempting large-scale mixing.

#### **General Restrictions**

- A maximum of 1.25 pints of Reflex Herbicide (**or a maximum of 0.313 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas north of Interstate 70 in Indiana.
- A maximum of 1.5 pints of Reflex Herbicide (**or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas south of Interstate 70 in Indiana.
- Do not harvest peas (succulent) within 46 days of Reflex Herbicide application.

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### **Crop Group 8-10 – Fruiting Vegetables Group**

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#### **Pepper (Bell and Non-Bell) – Transplanted Only**

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**Note:** Pepper varieties may vary in their response to Reflex Herbicide. When using Reflex Herbicide for the first time on a particular variety, always determine crop tolerance before using. Plant only healthy transplants and do not plant when unfavorable growing conditions exist. Rates provided are on broadcast acre basis and must be adjusted to treated area for banded and under mulch applications.

Refer to the Reflex Herbicide federal label for a list of weeds controlled.

#### **Bare Ground Broadcast Application for Transplanted Peppers**

Apply Reflex Herbicide at 0.75-1 pt/A (0.1875-0.25 lb a.i./A) as a pre-transplant non-incorporated preemergence broadcast application up to seven days prior to transplanting peppers. Effectiveness may be reduced if untreated soil is exposed during transplanting or other cultural operations. Avoid cultural practices that may concentrate Reflex Herbicide treated soil around the transplant root ball. An overhead irrigation or rainfall event between Reflex Herbicide application and transplanting will ensure herbicide activation and will likely reduce the potential for crop injury due to splashing.

#### **Plastic Mulched Systems Preplant Application for Transplanted Peppers**

Apply Reflex Herbicide at 0.75-1 pt/A (0.1875-0.25 lb a.i./A) as a pre-transplant non-incorporated preemergence broadcast application after final bed formation but prior to laying plastic mulch. Reflex application must be made after the final bed is formed and the drip tape is laid and immediately prior to laying plastic mulch. Soil must not be disturbed by any mechanical process after application. Unless restricted by other products (e.g. soil sterilants or fumigants), crops may be transplanted immediately following the Reflex Herbicide application.

**Pre-transplant over plastic mulch:** Apply Reflex Herbicide at 0.75 to 1 pt/A over top of plastic mulch. Reflex Herbicide must be washed off of plastic mulch with 0.5 inch rainfall/irrigation in a single event prior to hole punching and transplanting. It is essential that the top of the mulch bed is shaped such that water does not accumulate in the transplant row (drill) and sheds uniformly to each side of the plastic mulch.

**Row middle application prior to transplanting:** Apply Reflex Herbicide at 0.75 to 1 pt/A to row-middles prior to transplanting. The Reflex Herbicide rate applied must be reduced in proportion to the area treated.

### **Tank Mixtures with Other Products Registered for Use in Transplanted Peppers**

Reflex Herbicide may be tank mixed with other pesticide products registered for use in peppers. Follow the directions for use, observe the stated precautions, and abide by the limitations and restrictions on the most restrictive of the product labels. If you have no previous experience mixing these products under your conditions, perform a jar test to ensure compatibility before attempting large-scale mixing.

### **General Restrictions**

- A maximum of 1.25 pints of Reflex Herbicide (**or a maximum of 0.313 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas north of Interstate 70 in Indiana.
- A maximum of 1.5 pints of Reflex Herbicide (**or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas south of Interstate 70 in Indiana.
- Do not harvest peppers within 60 days of Reflex Herbicide application.

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### **Tomato – Transplanted Only**

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**Note:** Tomato varieties may vary in their response to Reflex Herbicide. When using Reflex Herbicide for the first time on a particular variety, always determine crop tolerance before using. Plant only healthy transplants and do not plant when unfavorable growing conditions exist. Rates provided are on broadcast acre basis and must be adjusted to treated area for banded and under mulch applications.

Refer to the Reflex Herbicide federal label for a list of weeds controlled.

### **Bare Ground Preplant Application for Transplanted Tomatoes**

Apply Reflex Herbicide at up to 1 pt/A (0.25 lb a.i./A) as a pre-transplant non-incorporated preemergence broadcast application up to seven days prior to transplanting tomatoes. Effectiveness may be reduced if untreated soil is exposed during transplanting or other cultural operations. Avoid cultural practices that may concentrate Reflex Herbicide treated soil around the transplant root ball. An overhead irrigation or rainfall even between Reflex Herbicide application and transplanting will ensure herbicide activation and will likely reduce the potential for crop injury to splashing.

### **Plastic Mulched Systems Preplant Application for Transplanted Tomatoes**

Apply Reflex Herbicide at up to 1 pt./A (0.25 lb a.i./A) as a pre-transplant non-incorporated preemergence broadcast application after final raised bed (well drained) formation but prior to laying plastic mulch. Reflex Herbicide application must be made after the final bed is formed and the drip tape is laid and immediately prior to laying plastic mulch. Soil must not be disturbed by any mechanical process after application. Unless restricted by other products (e.g. soil sterilants or fumigants), crops may be transplanted immediately following the Reflex Herbicide application.

### **Tank Mixtures with Other Products Registered for Use in Transplanted Tomatoes**

Reflex Herbicide may be tank mixed with other pesticide products registered for use in tomatoes. Follow the directions for use, observe the stated precautions, and abide by the limitations and restrictions on the most restrictive of the product labels. If you have no previous experience mixing these products under your conditions, perform a jar test to ensure compatibility before attempting large-scale mixing.

### **General Restrictions**

- A maximum of 1.25 pints of Reflex Herbicide (**or a maximum of 0.313 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in

- all areas north of Interstate 70 in Indiana.
- A maximum of 1.5 pints of Reflex Herbicide (**or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas south of Interstate 70 in Indiana.
- Do not harvest tomatoes within 70 days of Reflex Herbicide application.

## Crop Group 9 – Cucurbit Vegetables

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### Pumpkin

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**Note:** Pumpkin varieties may vary in their response to Reflex Herbicide. If soils are cold and wet during pumpkin germination and emergence, the use of Reflex Herbicide may delay maturity and/or reduce yields. If heavy rain occurs shortly after transplanting, Reflex Herbicide may delay maturity and or reduce yields. When using Reflex Herbicide for the first time on a particular variety, always determine crop tolerance before using. Plant only high quality seed or healthy transplants and do not plant when unfavorable growing conditions exist.

Reflex Herbicide rates below 1 pt/A (0.25 lb a.i./A) are not intended to be used as a stand-alone weed control program and should be used with other herbicides and/or other methods of weed control that support weed resistance management. Refer to the Reflex Herbicide federal label for a complete list of weeds controlled.

#### **Broadcast Application for Directed Seeded Pumpkin**

Apply Reflex Herbicide at 0.5-1 pt/A (0.125-0.25 lb a.i./A) as a preemergence broadcast application to direct seeded pumpkin after direct seeding pumpkin but before crop emergence. An overhead irrigation or rainfall event between Reflex Herbicide application and crop emergence will ensure herbicide activation and will likely reduce the potential for crop injury due to splashing.

#### **Broadcast Application for Transplanted Pumpkin**

Apply Reflex Herbicide at 0.5-1 pt/A (0.125-0.25 lb a.i./A) as a pre-transplant non-incorporated preemergence broadcast application up to 7 days prior to transplanting pumpkins. Effectiveness may be reduced if untreated soil is exposed during transplanting or other cultural operations. Avoid cultural practices that may concentrate Reflex Herbicide treated soil around the transplant root ball. An overhead irrigation or rainfall event between Reflex Herbicide application and transplanting will ensure herbicide activation and will likely reduce the potential for crop injury due to splashing.

#### **Row Middle Application**

Apply Reflex Herbicide at 0.5-1 pt/A (0.125-0.25 lb a.i./A) as a row middle application after seeding but before crop emergence or prior to transplanting. For row middle application, reduce rate in proportion to area actually treated.

#### **General Restrictions**

- A maximum of 1.25 pints of Reflex Herbicide (**or a maximum of 0.313 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas north of Interstate 70 in Indiana.
- A maximum of 1.5 pints of Reflex Herbicide (**or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas south of Interstate 70 in Indiana.
- Do not harvest pumpkin within 32 days of Reflex Herbicide application.

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## Summer Squash and Winter Squash

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Note: Summer squash and winter squash varieties may vary in their response to Reflex Herbicide. If soils are cold and wet during germination and emergence, the use of Reflex Herbicide may delay maturity and/or reduce yields. If heavy rain occurs shortly after transplanting, Reflex Herbicide may delay maturity and/or reduce yields. When using Reflex Herbicide for the first time on a particular variety, always determine crop tolerance before using. Plant only high quality seed or healthy transplants and do not plant when unfavorable growing conditions exist.

Note: Butternut squash is very sensitive to Reflex Herbicide. Do not use Reflex on butternut squash if you cannot accept some stand thinning and/or yield reduction.

Reflex Herbicide rates below 1 pt/A (0.25 lb a.i./A) are not intended to be used as a stand-alone weed control program and should be used with other herbicides and/or other methods of weed control that support weed resistance management. Refer to the Reflex Herbicide federal label for a complete list of weeds controlled.

### Broadcast Application for Directed Seeded Summer Squash and Winter Squash

Apply Reflex Herbicide at 0.5-1 pt/A (0.125-0.25 lb a.i./A) as a preemergence broadcast application to direct seeded summer squash and winter squash after direct seeding summer squash and winter squash but before crop emergence. An overhead irrigation or rainfall event between Reflex Herbicide application and crop emergence will ensure herbicide activation and will likely reduce the potential for crop injury due to splashing.

### Broadcast Application for Transplanted Summer Squash and Winter Squash

Apply Reflex Herbicide at 0.5-1.0 pt/A (0.125-0.25 lb a.i./A) as a pre-transplant non-incorporated preemergence broadcast application up to 7 days prior to transplanting summer squash and winter squash. Effectiveness may be reduced if untreated soil is exposed during transplanting or other cultural operations. Avoid cultural practices that may concentrate Reflex Herbicide treated soil around the transplant root ball. An overhead irrigation or rainfall event between Reflex Herbicide application and transplanting will ensure herbicide activation and will likely reduce the potential for crop injury due to splashing. Reflex Herbicide must be washed off of plastic mulch with 0.5 inch rainfall/irrigation in a single event prior to hole punching and transplanting. It is essential that the top of the mulch bed is shaped such that water does not accumulate in the transplant row (drill) and sheds uniformly to each side of the plastic mulch.

### Row Middle Application

Apply Reflex Herbicide at 0.5-1.0 pt/A (0.125-0.25 lb a.i./A) as a row middle application after seeding but before crop emergence or prior to transplanting. For row middle application, reduce rate in proportion to area actually treated.

### General Restrictions

- A maximum of 1.25 pints of Reflex Herbicide (**or a maximum of 0.313 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas north of Interstate 70 in Indiana.
- A maximum of 1.5 pints of Reflex Herbicide (**or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas south of Interstate 70 in Indiana.
- Do not harvest summer squash or winter squash within 32 days of Reflex Herbicide application.

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## Watermelon

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Note: Reflex Herbicide rates below 16 fl oz/A are not intended to be used as a stand-alone weed control program and should be used with other herbicides and/or other methods of weed control that support weed resistance management. Refer to the Reflex Herbicide federal label for a complete list of weeds controlled.

**Bare Ground Seeded:** Apply Reflex Herbicide at 10 to 12 fl oz/A within 24 hours after planting. Follow with overhead irrigation (0.2-0.5 inch) at least 36 hours prior to watermelon cracking the ground.

**Bare Ground Transplants:** Prepare land for transplanting, apply Reflex Herbicide at 10 to 12 fl oz/A, irrigate (overhead - 0.2 to 0.5 inch) to activate the herbicide, and then prepare plant holes and transplant. Do not punch holes until after Reflex Herbicide application and irrigation have occurred. Avoid tillage after the Reflex Herbicide application through transplanting.

### Plastic Mulched Seeded or Transplants:

**Pre-transplant under plastic mulch:** Apply Reflex Herbicide at 10 to 12 fl oz/A under plastic mulch. Ensure the mulch laying process does not disturb treated soil. Do not apply prior to laying drip or running a bed pan. Application must be made immediately prior to laying plastic without soil disturbance.

**Pre-transplant over plastic mulch:** Apply Reflex Herbicide at 10 to 12 fl oz/A over top of plastic mulch. Reflex Herbicide must be washed off of plastic mulch with 0.5 inch rainfall/irrigation in a single event prior to hole punching and transplanting. It is essential that the top of the mulch bed is shaped such that water does not accumulate in the transplant row (drill) and sheds uniformly to each side of the plastic mulch.

**Row middle application prior to emergence or transplanting:** Apply Reflex Herbicide at 10 to 16 fl oz/A to row-middles prior to emergence or transplanting. The Reflex Herbicide rate applied must be reduced in proportion to the area treated.

**Row middle application post-transplant:** Apply Reflex Herbicide at 16 to 24 fl oz/A to row middles with shielded or hooded sprayers. The Reflex Herbicide rate applied must be reduced in proportion to the area treated. Make the directed application before the vines run out of plastic mulch. Severe injury or plant death will occur if foliage is contacted by Reflex Herbicide.

### Precautions:

- Watermelon varieties may vary in their response to Reflex Herbicide; therefore, treat small acreages first to determine crop tolerance, especially when applying to a new variety.
- Avoid overhead irrigation during soil cracking and emergence.
- Foliar application of Reflex Herbicide will severely damage or kill watermelon.
- The potential of crop injury is greater on lighter textured soils combined with intensive irrigation programs, therefore, adjust use rates accordingly.

### Restrictions:

- A maximum of 1.25 pints of Reflex Herbicide (**or a maximum of 0.313 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas north of Interstate 70 in Indiana.
- A maximum of 1.5 pints of Reflex Herbicide (**or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen**) may be applied per acre in ALTERNATE years in all areas south of Interstate 70 in Indiana.



- Do not apply Reflex Herbicide within 35 days of harvest.

#### **Rotational Crop Restrictions\***

The following rotational crops may be planted after applying Reflex Herbicide at recommended rates.

<b>Crop to be Planted</b>	<b>Minimum Recropping Interval (Months After Last Reflex Herbicide Application)</b>
Cantaloupe	10
Cotton	0
Cucumber	10
Dry bean	0
Eggplant (transplanted only)	12
Field Corn	10
Lima Bean	4
Pea (succulent)	0
Peanuts	10
Pepper (transplanted only)	0
Popcorn	10
Potato	0
Pumpkin	0
Rice	10
Seed corn	10
Small grains such as wheat, barley, rye	4
Snap bean	0
Soybean	0
Squash	0
Succulent soybean (edamame)	0
Succulent beans (other than snap bean and lima bean)	12
Sunflower	12
Sweet corn	10
Tomato (transplanted only)	0
Watermelon	0
All other crops not listed above	18

\*These rotational crop restrictions are specific to the rates and crops specified in this label and apply only to the state of Indiana.

Do not graze rotated small grain crops or harvest forage or straw for livestock.

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24(c) Registrant:  
 Syngenta Crop Protection, LLC  
 P. O. Box 18300  
 Greensboro, North Carolina 27419

Label Code: IN0993050AA0322