


**AgroFresh**

 ACCEPTED  
FOR REGISTRATION

July 28, 2017

 New York State Department  
of Environmental Conservation  
Division of Materials Management  
Pesticide Product Registration

**LandSpring™**
**LandSpring™ WP**

Protects seedlings from the various effects of ethylene.

**ACTIVE INGREDIENT:**
**1-Methylcyclopropene** ..... 3.8%

**OTHER INGREDIENTS:** ..... 96.2%

**TOTAL:** ..... 100.0%

**NOTICE:** Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unused within thirty days of purchase to the place of purchase.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID**

<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**POISON CONTROL CENTER  
1-800-222-1222**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, call the poison control center 1-800-222-1222.

**EPA Reg. No. 71297-6**
**EPA Est. No. 66397-OK-001**
**Produced by: AgroFresh Inc.**
**400 Arcola Road, PO Box 7000, Collegeville, PA, Tel: 866-206-1001**
**Lot No.**
**Net Contents (On Container)**

110159/20170013





Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to Supplemental Labeling entitled AGRICULTURAL USE REQUIREMENTS in the DIRECTIONS FOR USE section of the labeling for information about this standard.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION

Causes slight eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapor.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear
- WHEN HANDLING PLASTIC CONTAINERS: Respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N,R,P, or HE prefilter.

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

### ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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

For terrestrial use: 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.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or thorough drift. Only protected handlers may be in the area during application.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers 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 4 hours** unless wearing the appropriate PPE. For plant houses, do not enter or allow worker entry into treated areas prior to venting of the volatile active ingredient from the treatment area unless wearing the appropriate PPE. Ventilation shall continue until after **two (2) hours** of ventilation using fans or other mechanical systems or **four (4) hours** of ventilation using vents, windows or other passive ventilation.

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:

- Long -sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear
- FOR PLANT HOUSES: Respirator with an organic – vapor removing cartridge.





**Read the entire label before using this product.**

#### **APPLICATION INSTRUCTIONS**

LandSpring WP is packaged in a plastic container. Open the container with your body upwind. If exposed to water, the formulation will begin to release 1-MCP gas. **In poorly vented systems, this gas may temporarily reach flammable levels in the headspace. The headspace must not come in contact with an ignition source.**

**Rate, time and mode of application:** Refer to instructions in crop table.

**Plant Safety:** This product has been tested on numerous plant varieties with no phytotoxic effects. However, since this product has not been tested on all plant varieties or in combination with all available adjuvants or tank mixes, the manufacturer recommends testing on a small number of plants to check for adverse plant effects before applying on a larger number of plants. Under certain environmental conditions, the use of spray adjuvants can result in transient crop response.

**Incompatibility:** Do not use with products containing copper.

#### **For treatment of SEEDLINGS:**

**BROCCOLI, BRUSSEL SPROUTS, CABBAGE, CANTALOUPE, CAULIFLOWER, CUCUMBER, EGGPLANT, GHERKIN, MUSKMELON, BELL PEPPER, NONBELL PEPPER, SUMMER SQUASH; TOMATO, WATERMELON**

- Do NOT exceed THREE (3) minutes of AGITATION after product is added to spray tank.
- Do NOT allow product to contact any COPPER.





SEEDLING CROPS FOR TRANSPLANT	Application Timing for Seedlings	RATE oz/acre	Restrictions
Broccoli, brussel sprouts, cabbage, cantaloupe, cauliflower, cucumber, eggplant, gherkin, muskmelon, bell pepper, nonbell pepper, summer squash; tomato, watermelon	<u>Apply 1-5 days before transplanting.</u> <u>If transplanting is delayed more than 5 days, make a second application</u>	3.8 to 9.4 (0.14 to 0.36 oz ai/acre)	Do not apply more than 18.8 oz/acre per crop.

**SEEDLINGS:** When applied to seedlings 1-5 days before transplanting, LandSpring WP helps decrease transplant shock enabling plants to more rapidly establish and grow. Observed benefits include increased crop biomass due to better root and shoot development when plants are subjected to stress in the weeks following transplantation.

**Mixing Instructions for Sprayer Tanks:**

1. Fill the tank of application equipment with required water volume.
2. Add the required LandSpring WP to the tank as directed in the Use Rate Table above.
3. Continue running the agitation system for 3 minutes after adding the LandSpring WP.  
DO NOT EXCEED 3 MINUTES OF AGITATION.
4. Do not use agitator during spraying.
5. Initiate spray application as soon as possible after step 3 and no later than 15 minutes after preparation of tank mixture.

**Mixing Instructions for Dosatron or Other injection systems:**

1. Fill the tank of application equipment with required water volume.
2. Add the required LandSpring WP to the tank as directed in the Use Rate Table above.
3. Gently stir the spray solution for up to 3 minutes.
4. Initiate spray application as soon as possible after step 3 and no later than 15 minutes after preparation of spray mixture.



### **Spray Volume**

Use calibrated equipment to apply LandSpring WP in a sufficient amount of water to ensure good drenching of the seedlings. Product efficacy requires that the foliage receive uniform spray coverage. Use a minimum spray volume of 40 gallons per acre.

### **Spray Nozzle Requirements**

Required droplet size is 250-400µm. For best results, do not use droplets smaller than 250µm.

### **Important Considerations**

- For best results, apply under slow drying conditions, e.g. early in the morning or at night, in order to ensure adequate absorption.
- The manufacturer recommends to not apply if rain or overhead irrigation is expected within 1 hour of application.
- The manufacturer recommends to not apply in winds exceeding 10mph.
- LandSpring WP has a 1 day preharvest interval (PHI)
- Handle LandSpring WP in a well ventilated area.
- The manufacturer recommends applying LandSpring WP alone on seedlings, without tank mixes or adjuvants.

## **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in original packaging in a cool, dry place.

**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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty outer foil package in trash

For plastic 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.

LandSpring™ is a registered trademark of AgroFresh, Inc.

**U.S. Patents 8,541,344 and 6,017,849**







## **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of AGROFRESH INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of AGROFRESH INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, AGROFRESH INC. 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 when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD "AS IS" TO THE EXTENT CONSISTENT WITH APPLICABLE LAW. AGROFRESH INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE. IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT AGROFRESH INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL, BUYER OR USER MUST SEND WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS, TO THE EXTENT REQUIRED BY APPLICABLE LAW:

AGROFRESH INC.  
ATTENTION: LAW DEPARTMENT  
100 INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19106-2399

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, OR STRICT LIABILITY.









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