For soil insect pests and soilborne/seedling disease control and plant health in corn (all types) by mixing directly with liquid fertilizer using at-plant (T-band or in-furrow) applications

Active Ingredients:
Bifenthrin* ................................................................. 14.4%
Pyraclostrobin: (carbamic acid, [2-[[1-(4-chlorophenyl)-1H-pyrazol-3-y]oxy]methyl]phenyl)methoxy-, methyl ester) ........................................ 7.2%
Other Ingredients: .......................................................... 78.4%
Total: ........................................................................ 100.0%
* Cis isomers 97% minimum, trans isomers 3% maximum

This product contains 1.33 lbs bifenthrin and 0.67 lb pyraclostrobin active ingredients per gallon.


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.)

This label must be in the possession of the user at the time of application.

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or 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:
Distributed by:
BASF Corporation
26 Davis Drive, Research Triangle Park, NC 27709
Precautionary Statements

Hazards to Humans and Domestic Animals

**WARNING.** May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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**

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate)
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. **DO NOT** reuse them. 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 Statement**

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.

**Environmental Hazards**

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. **DO NOT** apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** make applications 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.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce

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**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.

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**FIRST AID**

<table>
<thead>
<tr>
<th>If swallowed</th>
<th>Call a poison control center or doctor immediately for treatment advice.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Have person sip a glass of water if able to swallow.</td>
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<tr>
<td></td>
<td>• <strong>DO NOT</strong> induce vomiting unless told to by a poison control center or doctor.</td>
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<tr>
<td></td>
<td>• <strong>DO NOT</strong> give anything by mouth to an unconscious person.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If on skin</th>
<th>Take off contaminated clothing.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</td>
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<tr>
<td></td>
<td>• Call a poison control center or doctor for treatment advice.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>If in eyes</th>
<th>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</th>
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<tbody>
<tr>
<td></td>
<td>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</td>
</tr>
<tr>
<td></td>
<td>• Call a poison control center or doctor for treatment advice.</td>
</tr>
</tbody>
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**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 at 1-800-832-HELP (4357).

**NOTE TO PHYSICIAN**

This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.
runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours. Sound erosion control practices will reduce this product’s contribution to surface water contamination.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds while bees are foraging in the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

**Groundwater Advisory**
The chemical pyraclostrobin 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.

**Directions For Use**

**Restricted Use Pesticide**

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) 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.

**AGRICULTURAL USE REQUIREMENTS** *(continued)*

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
- Chemical-resistant gloves (made of any waterproof material)
- Shoes plus socks

**STORAGE AND DISPOSAL**

**DO NOT** contaminate food or feed by storage or disposal.

**Pesticide Storage**

Store in the original container only in a dry, temperature-controlled, and secure place. Carefully open containers. After partial use, replace lids and close tightly. Keep containers closed when not in use. **DO NOT** store near food or feed.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills) at 1-800-424-9300.

**Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**Container Handling**

**DO NOT** rinse container. **DO NOT** empty remaining formulated product. **DO NOT** break seals. Return intact to point of purchase.

**Metal or Plastic Container: Non-refillable container (in sizes 5 gallons or less)**

**DO NOT** reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds, pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **DO NOT** cut or weld metal containers.
In Case of Emergency

In case of large-scale spill of this product, call:
• CHEMTREC 1-800-424-9300

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)

Steps to take if material is released or spilled:
• In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.
• Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
• Remove contaminated clothing and wash affected skin areas with soap and water.
• Wash clothing before reuse.
• Keep the spill out of all sewers and open bodies of water.

Product Information

Manticor™ LFR® in-furrow fungicide/insecticide is a liquid concentrate insecticide and fungicide that contains 1.33 lbs of bifenthrin and 0.67 lb pyraclostrobin active ingredients per gallon. Manticor LFR can be mixed directly with liquid fertilizer or water. Bifenthrin is a pyrethroid insecticide and pyraclostrobin is a member of the strobilurin class of chemistry derived from a natural antifungal substance. Preventive applications optimize disease control, resulting in improved plant health. The increase in plant health comes from the combined effect of disease control (including fungal diseases listed in the Rates for Insect and Disease Control in Corn table on this label), improved growth efficiency, and improved stress tolerance. Overall increased plant health may result in an improvement in crop growth and crop quality as well as increased crop yields.

Information regarding the contents and levels of metals in this product is available on the Internet at http://www.aapfco.org/metals.htm.

Mode of Action

Bifenthrin is classified as a sodium channel modulator by the US EPA and Canada PMRA and is a member of Group 3 insecticides according to the Insecticide Resistance Action Committee classification scheme.

Pyraclostrobin belongs to the group of respiration inhibitors classified by the US EPA and Canada PMRA as quinone outside inhibitors (QoI) or target site of action Group 11 fungicides.
Resistance Management

Some insects and diseases are known to develop resistance to products with the same chemical class used repeatedly for control. Manticor™ LFR® in-furrow fungicide/insecticide contains a Group 3 insecticide and a Group 11 fungicide. Although insecticide and fungicide resistance cannot be predicted, a general rule to reduce the onset of resistance is to not consecutively and repeatedly apply Group 3 insecticides and Group 11 fungicides during a growing season for control of particular insects and diseases, respectively. Consult your local or state agricultural authorities or your BASF representative for more specific details on insect resistance management strategies.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant population may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local BASF representative or agricultural advisor for the best alternative method of control for your area.

Resistance Management Advisory

The following recommendations may delay the development of resistance:

1. **Tank mixtures for T-band or in-furrow** - Use tank mixtures with effective insecticides/fungicides from different target site of action groups that are registered/ permitted for the same use and that are effective against insects and/or diseases of concern. Use at least the minimum labeled rates of each insecticide/fungicide in the tank mix.

2. **IPM** - Integrate Manticor LFR into an overall insect and disease management program. Follow cultural practices known to reduce insect and disease development. Consult your local extension specialist, certified crop advisor and/or BASF representative for additional IPM strategies established for your area.

3. **Monitoring** - Monitor efficacy of all insecticides/ fungicides used in the disease management program against the targeted pests and record other factors that may influence product performance. If a Group 3 target site insecticide or a Group 11 target site fungicide appears to be less effective against pests in controlling a particular insect or disease than it did previously, contact a BASF representative, local extension specialist, or certified crop advisor for further investigation.

Mixing Instructions

Shake well before using.

Maintain a minimum distance of 25 feet between the mixing and loading area and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, and field drains.

Fill the tank one-half full with liquid fertilizer or water and begin spray tank agitation. Add the proper amount of Manticor LFR, and then add the rest of the fertilizer or water. Maintain agitation until the mixture has been applied.

Agitate the Manticor LFR spray solutions in nurse tanks prior to moving the solution to the spray system.

Avoid letting the tank mixture set overnight, but if this occurs agitate tank mixture prior to application.

Application Instructions

Apply as a 5 to 7 inch band (T-band) over an open furrow, or in-furrow before the seed is covered. Apply in combination with a minimum of 3 gallons per acre of seed safe starter fertilizer or water. Higher carrier volumes will improve insect/disease control.

Rate per 1,000 row feet is dependent on the crop row spacing. The rate of application is variable according to insect and disease pressure, timing of treatments and field scouting. Use lower listed rates under light to moderate insect and disease conditions, and higher listed rates under heavier insect and disease pressure. In arid climates application rates are generally higher.

Cleaning Spray Equipment

Spraying equipment must be cleaned thoroughly before and after applying this product, particularly if a product with the potential to injure crops was used prior to Manticor LFR.

Restrictions and Limitations

- **DO NOT** apply this product through any type of irrigation system.
- Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetative filter strip.
- In New York State this product may not be applied within 100 feet (using ground equipment) of coastal marshes or streams that drain into coastal marshes.
- **DO NOT** apply more than 19 fl ozs of product per acre as an at-plant application.
- **DO NOT** apply more than 1.18 lbs pyraclostrobin active ingredient per acre per year (season) including at-plant and foliar applications of this and other pyraclostrobin containing products.
- **DO NOT** apply more than 0.2 lb bifenthrin active ingredient per acre from all bifenthrin containing products used as an at-plant application.
- **DO NOT** apply more than a total of 0.2 lb pyraclostrobin active ingredient per acre from all pyraclostrobin containing products used as an at-plant application.
- **For field corn** - **DO NOT** apply more than 0.3 lb bifenthrin active ingredient per acre per year including pre-plant incorporated, at-plant, pre-emergence, and foliar applications of this and other bifenthrin products.
• For sweet corn - DO NOT apply more than 0.2 lb bifenthrin active ingredient per acre per year including pre-plant incorporated, at-plant, pre-emergence, and foliar applications of this and other bifenthrin products.

Rotational Crops

Plant back restrictions are determined by the crop.

Crops that have existing tolerances for both bifenthrin and pyraclostrobin may be rotated at any time.

Crops that have existing tolerances for bifenthrin but not pyraclostrobin can be rotated 14 days following the final application of Manticor™ LFR® in-furrow fungicide/insecticide.

Crops that have existing tolerances for pyraclostrobin but not bifenthrin may be rotated 30 days following the final application of Manticor LFR.

Buffer Zones

Vegetative Buffer Zones

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.


Buffer Zone for Ground Application - DO NOT apply this product within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish farm ponds.
### Conversion Table

<table>
<thead>
<tr>
<th>Row Spacing (inches)</th>
<th>Linear row ft/Acre</th>
<th>0.49 fl oz/1,000 ft</th>
<th>1.09 fl ozs/1,000 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Conversion fl ozs/1,000 linear ft to fl ozs/Acre</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>34,848 ft</td>
<td>17 fl ozs/A</td>
<td>NA¹</td>
</tr>
<tr>
<td>20</td>
<td>26,136 ft</td>
<td>12.8 fl ozs/A</td>
<td>NA²</td>
</tr>
<tr>
<td>30</td>
<td>17,424 ft</td>
<td>8.5 fl ozs/A</td>
<td>19 fl ozs/A</td>
</tr>
<tr>
<td>36</td>
<td>14,520 ft</td>
<td>NA³</td>
<td>15.8 fl ozs/A</td>
</tr>
<tr>
<td>Twin Row</td>
<td>34,848 ft</td>
<td>17 fl ozs/A</td>
<td>NA¹</td>
</tr>
</tbody>
</table>

¹For 17 fl ozs/A rate in 15 inch or twin row spacings, use 0.55 fl oz/1,000 ft
²For 12.8 fl ozs/A rate in 20 inch row spacings, use 0.72 fl oz/1,000 ft
³For 8.5 fl ozs/A rate in 36 inch row spacings, use 0.58 fl oz/1,000 ft
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. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather 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, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER’S EXCLUSIVE REMEDY AND BASF’S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, 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 the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

Manticor is a trademark of BASF.

LFR is a registered trademark of FMC Corporation.