

## **POPLAR / COTTONWOOD - PEST SUPPRESSED (CUTTING/WHIPS SOAK)**

### General Information

### Resistance Management

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, use the product in conformance with resistance management strategies established for the use area. ADMIRE PRO SYSTEMIC PROTECTANT contains a Group 4A insecticide. Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species.

The active ingredient in ADMIRE PRO SYSTEMIC PROTECTANT is a member of the neonicotinoid chemical class. Insect pests resistant to other chemical classes have not shown cross-resistance to ADMIRE PRO SYSTEMIC PROTECTANT.

### DIRECTIONS FOR USE

#### Application Directions (Soil)

Direct applications of ADMIRE PRO SYSTEMIC PROTECTANT into the seed or root-zone of crop. Failure to place ADMIRE PRO SYSTEMIC PROTECTANT into root-zone may result in loss of control or delay in onset of activity. Apply ADMIRE PRO SYSTEMIC PROTECTANT by ground application or chemigation application. For seedling flats or trays, only apply with broadcast, foliar applications or where product is intended to be washed from foliage to soil prior to drying on foliage.

Optimum activity of ADMIRE PRO SYSTEMIC PROTECTANT results from applications to the root-zone of plants to be protected. The earlier ADMIRE PRO SYSTEMIC PROTECTANT is available to a developing plant, the earlier the protection begins. ADMIRE PRO SYSTEMIC PROTECTANT is continuously taken into the roots over a long period of time and the systemic nature of ADMIRE PRO SYSTEMIC PROTECTANT allows movement from roots through the xylem tissue to all vegetative parts of the plant. This results in residual activity of ADMIRE PRO SYSTEMIC PROTECTANT and

the control of insects which may vector pathogens thereby reducing disease transmission or symptom expression, and the promotion of plant health benefits. The rate of ADMIRE PRO SYSTEMIC PROTECTANT applied affects the length of the plant protection period. Use the higher listed rates when infestations occur later in crop development, or where pest pressure is continuous. ADMIRE PRO SYSTEMIC PROTECTANT will generally not control insects infesting flowers, blooms or fruit. Additional crop protection may be required for insects feeding in, or on these plant parts and for insects not listed in the crop-specific, pests controlled sections of the label. Additional, specific ADMIRE PRO SYSTEMIC PROTECTANT application rates are also provided in the crop-specific sections of the label.

#### Restrictions (Soil applications)

Do not apply to plants grown in non-soil medias such as perlite, vermiculite, rock wool or other soil-less media, or plants growing hydroponically.

Do not apply more than 0.5 lb active ingredient per acre, per year regardless of formulation or method of application, unless specified within a crop-specific section for a given crop.

#### Application Directions (Foliar)

Apply ADMIRE PRO SYSTEMIC PROTECTANT with properly calibrated ground or aerial application equipment. Apply specified rate per acre as a directed or broadcast spray to infested area at earliest threshold for target pest, as population begins to develop. Thorough uniform coverage of all plant parts is required to achieve optimum control. Scout fields and retreat if needed.

The lower rates can be used early season when pest pressures are low or when tank-mixing with other effective products registered for target insect control. Degree of control or suppression of additional labeled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests. ADMIRE PRO SYSTEMIC PROTECTANT provides optimal performance against early instar and early nymphal stages of insects as well as bollworm/budworm eggs. Applications made with less than 5 gallons per acre may result in slower activity and/or less overall control from a single application than an application made with higher gallonages. Use an organosilicone-based spray adjuvant for applications targeting aphids and whiteflies for better control.

Suppression or less than complete control of certain diseases and insect pests including reduced feeding may also result from ADMIRE PRO SYSTEMIC PROTECTANT applications. Complete control of these pests/diseases may require supplemental control measures.

ADMIRE PRO SYSTEMIC PROTECTANT is not intended for use on crops grown for production of true seed for private or commercial planting unless allowed under State specific 24(c) labeling. As with any insecticide, care must be taken to minimize exposure of ADMIRE PRO SYSTEMIC PROTECTANT to honey bees and other pollinators. Additional information on ADMIRE PRO SYSTEMIC PROTECTANT uses for these crops and other questions may be obtained from the Cooperative Extension Service, PCAs, consultants or local Bayer CropScience representatives.

Make application only to plants grown in field-type soils, potting media, or mixtures thereof. Do not apply to plants grown in non-soil medias such as perlite, vermiculite, rock wool or other soil-less media, or plants growing hydroponically.

Pre-mix ADMIRE PRO SYSTEMIC PROTECTANT with water or other appropriate diluent prior to application. Keep ADMIRE PRO SYSTEMIC PROTECTANT and water suspension agitated to avoid settling.

Additional Product Use information may be obtained by calling 1-866-99BAYER (1-866-992-2937).

Restrictions (Foliar applications)

Do not apply more than 0.5 lb active ingredient per acre, per year regardless of formulation or method of application, unless specified within a crop-specific section for a given crop.

Refer to supplemental label for Tank Mixture use on Potatoes.

Refer to supplemental label for Dry Bulk Fertilizer.

Limitations, Restrictions, and Exceptions

POPLAR / COTTONWOOD

- (includes members of the genus Populus grown for pulp or timber)

- Use not permitted in California unless otherwise directed by state specific 24(c) labeling.

### Cuttings/Whips Applications

Moisture content of cuttings/whips prior to application, the solution concentration and the length of soaking interval interact to affect the amount of product absorbed into plant material. For a constant soaking interval of 24 hours, drier cuttings/whips absorb a higher quantity of solution and require a lower concentration. Conversely, more hydrated cuttings/whips absorb less solution and require a higher concentration. Soaking of cuttings/whips should occur in a covered container in absence of UV light. Not all Populus sp. clones/varieties/hybrids have been tested for crop safety. Without specific knowledge about a particular Populus sp. clone/variety/hybrid, Bayer CropScience recommends that small numbers of cuttings/whips of each be treated and evaluated prior to commercial use.

Apply ADMIRE PRO SYSTEMIC PROTECTANT in one of the following cuttings/whips soaking methods:

1. For freshly cut (unhydrated) cuttings/whips, soak plant material in specified solution concentration for 24 hours prior to cold storage. After removal from cold storage, plant as needed.
2. For previously hydrated cuttings/whips removed from cold storage, allow plant material to reach room temperature and soak in specified solution concentration for 24 hours prior to planting.

Proper care must be taken in disposal of any residual soaking solution. Solution may be applied to existing trees or other registered crops as long as all product label precautions and restrictions are observed.

### RATES

5.8 - 11.6 (unhydrated cuttings/whips)

11.6 - 17.5 (partially hydrated cuttings/whips)

### Method

[Cutting/Whip Application](#)

[Soak](#)

Rates

[field\\_rates 0](#)

[field\\_rates 1](#)

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Restricted Entry Interval

12 hours

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

[At-Plant](#)