

# **LIBERTYLINK CORN - WATERHEMP, KOCHIA, VELVETLEAF - NEBRASKA**

## General Information

## Product Information

Distinct herbicide is a selective postemergence herbicide for the control of annual and biennial broadleaf weeds and control or suppression of many perennial broadleaf weeds in between-crop application, Conservation Reserve Program land, pasture, hay, and rangeland sites.

Distinct provides suppression of annual grass weeds at appropriate rates. Emerged grass up to 3-inches tall will cease growing but may remain green for weeks after application.

Regrowth of grass is limited when crop canopies over row middles.

Distinct may be applied sequentially or tank mixed with a grass herbicide for a complete weed control program; refer to Tank Mixing Information.

Use of this product in certain portions of Oregon and Washington is subject to the January 22, 2004, Order for Injunctive Relief in Washington Toxics Coalition, et. al. v. EP, C01-0132C, (W.D. WA). For further information, please refer to <http://www.epa.gov/espp/litstatus/wtc/index.html>.

## Mode of Action

Distinct is absorbed by leaves, roots, and shoots and is translocated to the growing points of sensitive weeds to provide postemergence control of emerged weeds as well as moderate residual control of germinating weeds.

Distinct controls weeds by auxin transport inhibition and auxin agonist modes of action. In addition, Distinct can complement the activity of other auxin-like herbicides such as clopyralid, picloram, and triclopyr.

Weeds treated with Distinct will typically display symptoms within several hours and be controlled in 3 to 7 days. Control of larger annual, biennial, or perennial weeds

may require additional time. Treated weeds will stop growing soon after application. Broadleaf weeds will display epinastic twisting and crinkling symptoms before becoming necrotic.

## Crop Tolerance

Labeled crops are generally very tolerant to Distinct application.

Temporary injury may occur under conditions of crop stress or rapid growth. Crop stress can be caused by drought, poor fertility, other pesticides (i.e. other herbicides) or foliar damage because of hail, wind, or insects. Injury can be avoided by agronomic practices that promote good crop growth and minimize stress conditions, especially combinations of stress factors. Crop leaning may occur during periods of rapid growth but is usually temporary and dissipates within 7 days without subsequent yield reduction.

Crops growing under stress conditions such as drought,

poor fertility, or foliar damage because of hail, wind, or insects can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

## Coverage

Weeds must be thoroughly covered with spray. Dense leaf canopies shelter smaller weeds and can prevent adequate spray coverage.

## Cultivation

Avoid disturbing (e.g. tillage or cultivating) treated areas for at least 7 days following application to allow best herbicide uptake, translocation, and weed control.

## Application Instructions

Best product performance is obtained when Distinct herbicide is applied to actively growing weeds. Distinct may be applied as a ground broadcast or spot spray application or as an aerial application (only as directed) at a rate of 4 to 8 ounces per acre plus spray additive (see Spray Additives). To avoid uneven spray coverage, DO NOT apply Distinct during periods of gusty winds or when wind speed exceeds 10 mph.

Weeds treated with Distinct will typically display symptoms within several hours and

be controlled in 3 to 7 days. Treated weeds will stop growing soon after application.

Broadleaf weeds will display epinastic twisting and crinkling symptoms before becoming necrotic. Suppressed grass weeds may display some epinasty and remain stunted and green.

### Aerial Application Methods and Equipment

Use 2 or more gallons of water per acre. Select nozzles designed to produce a minimal amount of fine spray particles.

The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Make aerial application at the lowest safe height to reduce exposing the spray to evaporation and wind.

### Ground Application Methods and Equipment

Distinct, a wettable granule formulation, can be applied using water as the spray carrier.

Water Volume. Select an appropriate spray volume that ensures adequate coverage of the target weed species.

Use higher water volumes when treating dense or tall vegetation.

DO NOT apply less than 3 gallons of spray volume per acre.

Application Equipment. Use ground application equipment that will provide good spray coverage of weed foliage. Exercise preventive measures to avoid drift onto nontarget areas.

### Restrictions and Limitations

- Maximum seasonal use rate - Refer to Table 2.
- Agricultural use sites REI - 24 hours

- Rainfast period - Distinct is rainfast 4 hours after application when used with recommended adjuvants according to Spray Additives.
- DO NOT apply to crops showing injury (leaf phytotoxicity or plant stunting) produced by any other prior herbicide application because this injury may be enhanced or prolonged.
- Allow a minimum of 15 days between sequential applications of Distinct.
- Pasture and rangeland grass treated with Distinct can be grazed immediately after application or harvested for livestock feed 7 days after application.
- DO NOT apply through any type of irrigation system.
- DO NOT treat irrigation ditches or water used for crop irrigation or domestic uses.
- Aerial application prohibited unless otherwise directed.
- This product cannot be used to formulate or reformulate any other pesticide product.

#### Weeds Controlled

Distinct will provide postemergence control of annual and biennial broadleaf weeds and control or suppression of many perennial broadleaf weeds including ALS-resistant<sup>1</sup> and triazine-resistant biotypes.

Distinct provides suppression of annual grass weeds at appropriate rates. Emerged grass up to 3-inches tall will cease growing but may remain green for weeks after application. Regrowth of grass is limited when crop canopies over row middles.

<sup>1</sup> ALS (acetolactate synthase)-resistant weeds include those weeds resistant to the sulfonyleurea, imidazolinone, and/or sulfonamide family of herbicides.

#### Limitations, Restrictions, and Exceptions

This recommendation is for a reduced rate of Distinct herbicide tank mixed with Liberty herbicide in LibertyLink corn for control of kochia, velvetleaf, and waterhemp in Nebraska.

## DIRECTIONS FOR USE:

Apply 3 ounces of Distinct tank mixed with Liberty to control emerged kochia, velvetleaf, and waterhemp in LibertyLink corn (see Liberty label for use rate recommendations). Maximum height of weeds for control is 6 inches.

Method

[Broadcast/Foliar Ground](#)

Rates

[field\\_rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[Postemergence \(Weed\)](#)