

# ADJUST™ SL

## Plant Growth Regulator

For growth management of wheat, triticale, barley, and oats to adjust apical dominance and produce shorter, thicker, stronger stems for improved lodging resistance.

**ACTIVE INGREDIENT:**

Chlormequat chloride: (2-Chloroethyl) trimethylammonium chloride\*..... 54.78%

**OTHER INGREDIENTS**..... 45.22%

**TOTAL 100.00%**

\*Adjust SL is a Soluble Concentrate (SL) containing 5.18 lbs. of (2-Chloroethyl) trimethylammonium chloride per gallon.

EPA Reg. No. 45728-35

EPA Est. No. 32557-BEL-1

**NET CONTENTS: 2.6 Gallons**

## 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.)

### FIRST AID

|                               |                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 IN EYES</b>             | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                                      |

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For Emergencies involving a Spill, Leak, Fire, Exposure, or Accident, Contact: CHEMTREC at (800) 424-9300. For product usage information, contact Taminco US LLC, at 888-321-8472.

**NOTE TO PHYSICIAN:** (2-Chloroethyl) trimethylammonium chloride is a weak ganglionic stimulant with an action like that of nicotine. Toxicity signs resemble those of anticholinesterase agents. However, the use of Atropine is contraindicated. An effective antidote has not been established.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING.** May be fatal if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin, eyes or clothing. 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 (PPE)

**Mixers and loaders, Applicators and other handlers (other than mixers and loaders) must wear:**

- Protective eyewear
- Long sleeved shirt
- Long pants
- Socks and shoes
- Chemical-resistant gloves such as Barrier laminate, Butyl Rubber ≥14 mils, Neoprene Rubber ≥14 mils, Polyvinyl chloride ≥14 mils

### User Safety Requirements

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.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### Engineering Controls

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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

## USER SAFETY RECOMMENDATIONS:

### User should:

- Wash thoroughly with soap and water after handling and 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 PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Do not enter or allow worker entry into treated areas for 24 hours following application.

## ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. 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. Keep out of lakes, streams and ponds. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas spray. Do not apply where runoff or erosion is likely to occur. Do not apply when environmental conditions may cause drift from treated areas. Clean spray equipment thoroughly after use.

## DIRECTIONS FOR USE

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.

Only for growth management of wheat, triticale, barley, and oats to adjust apical dominance and produce shorter, thicker, stronger stems for improved lodging resistance. Not for use on ornamentals.

## 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 24 hours.

For early entry into 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, wear:

- Coverall over long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof or chemical-resistant gloves (Barrier Laminate, Butyl Rubber ≥14 mils, Neoprene Rubber ≥14 mils, Polyvinyl chloride (PVC) ≥14 mils, Viton ≥14 mils)

## PRODUCT INFORMATION

All applications must be made according to the use directions that follow. Adjust SL is a plant growth regulator (PGR) which inhibits gibberellin biosynthesis. Early applications encourage effective rooting, increase yield by influencing apical dominance and tiller survival, and produce stronger stems (increased diameter of internodes 1 and 2). Rooting benefits are the greatest at mid tillering, whereas lodging reduction is more pronounced with later applications during stem elongation, reducing stem height and minimizing lodging.

## MIXING INSTRUCTIONS

- Thoroughly shake product container prior to use,
- Add 1/2 to 2/3 of the total water volume to be applied to the spray or mixing tank,
- While agitating, add Adjust SL to the tank,
- Add the remaining volume of water,
- Ensure thorough dispersion of Adjust SL into solution prior to application,
- Maintain agitation until all the mixture has been sprayed.

## TANK MIXING

Adjust SL can be tank mixed with other plant growth regulators, fungicides, insecticides, and herbicides. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. No claim of compatibility with other pesticides is implied. Prior to using a tank-mix product to treat large acreage, test on small plots for compatibility.

## PRODUCT INSTRUCTIONS

Thorough application coverage is necessary to provide good activity. Make up no more spray solution than is needed for application. Avoid spray overlap, as crop injury may occur.

When an adjuvant is to be used with this product, the use of an adjuvant that meets the standards of the Council of Producers and Distributors of Agrotechnology (CPDA) adjuvant certification program is recommended.

The activity and performance of Adjust SL is primarily affected by: (1) environmental conditions, (2) crop management and cultural practices that affect crop growth and vigor, (3) fertility level, (4) moisture availability, (5) plant vigor, and (6) crop growth stage.

## RESTRICTIONS

Do not apply Adjust SL to any crop suffering physical stress caused by water logging, drought, or other extreme conditions. Crops with substantial moisture deficit should not be treated.

Do not use in tank mixture with liquid nitrogen fertilizer.

Although Adjust SL may be applied under normal seasonal temperatures (down to 33 degrees F) and ground conditions, do not spray onto plants covered with frost. For optimal results, Adjust SL requires two hours before rain or frost occurs.

Plantback Interval of 0 days for labeled crops

## CROP SPECIFIC RATES AND TIMING:

For growth and lodging management and yield protection in cereals.

| CROP                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rate<br>fl. Oz./A<br>(lb. a.i./A) | Directions for Use<br>Growth Stages (GS) according to Zadoks scale<br>See table below for more explanation about the growth stages expressed in Zadoks and Feekes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Winter Wheat                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10.95-24.63<br>(0.44-1.00)        | <ul style="list-style-type: none"> <li>• For single application – Apply at a dose rate of 24.63 fl. oz. of Adjust SL per acre (1.00 lb. a.i. per acre) between GS 30 (the beginning of stem elongation stage) and GS 39 (the flag leaf collar visible stage).</li> <li>• For split application – Make the first application at GS 12-30 and the second at GS 31-39. Apply no more than 24.63 fl.Oz/acre total. Recommended split application rate: Apply at a dose rate of 13.68 fl. oz. of Adjust SL per acre (0.56 lb.a.i. per acre) between GS 12 (the 2-leaf stage) and GS 30 (the beginning of stem elongation stage) followed by a second application of 10.95 fl. oz. of Adjust SL per acre per year (0.44 lb. a.i. per acre per year) between GS 31 (the 1-node stage) and GS 39 (the flag leaf collar visible stage).</li> </ul>                                                                                                                                                                                                                    |
| <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>Maximum Annual Rate: DO NOT</b> apply more than 24.63 fl. oz. per acre (1.00 lb. a.i.) per calendar year.</li> <li>• <b>Maximum Single Application Rate: DO NOT apply more than</b> 24.63 fl. oz. (1.00 lb. a.i. per acre).</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply later than GS 39.</li> <li>• [Not registered for use by California]</li> </ul> |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| CROP                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rate<br>fl. Oz./A<br>(lb. a.i./A) | Directions for Use<br>Growth Stages (GS) according to Zadoks scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Spring and Durum Wheat                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10.95-24.63<br>(0.44-1.00)        | <ul style="list-style-type: none"> <li>• For single application – Apply at a dose rate of 24.63 fl. oz. of Adjust SL per acre (1.00 lb. a.i. per acre) between GS 30 (the beginning of stem elongation stage) to GS 32 (the 2-node stage). If an application is not possible at GS 30 – 32 due to environmental or field conditions, do not apply later than GS 39.</li> <li>• For split application – Make the first application at GS 12-30 and the second at GS 31-39. Apply no more than 24.63 fl.Oz/acre total. Recommended split application rate: Apply at a dose rate of 10.95 fl. oz. of Adjust SL per acre (0.44 lb.a.i. per acre) between GS 12 (the 2-leaf stage) and GS 30 (the beginning of stem elongation stage) followed by a second application of 13.68 fl. oz. of Adjust SL per acre per year (0.56 lb. a.i. per acre per year) between GS 31 (the 1-node stage) to GS 32 (the 2-node stage). If the second application is not possible at GS 31 – 32 due to environmental or field conditions, do not apply later than GS39.</li> </ul> |
| <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>Maximum Annual Rate: DO NOT</b> apply more than 24.63 fl. oz. per acre (1.00 lb. a.i.) per calendar year.</li> <li>• <b>Maximum Single Application Rate: DO NOT apply more than</b> 24.63 fl. oz. (1.00 lb. a.i. per acre).</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply later than GS 39.</li> <li>• [Not registered for use by California]</li> </ul> |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| CROP                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rate<br>fl. Oz./A<br>(lb. a.i./A) | Directions for Use<br>Growth Stages (GS) according to Zadoks scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Barley<br>Winter<br>and<br>Spring                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15.69-31.38<br>(0.63-1.27)        | <ul style="list-style-type: none"> <li>For single application – Apply at a dose rate of 31.38 fl. oz. of Adjust SL per acre (1.27 lb. a.i. per acre) between GS 30 (the beginning of stem elongation stage) to GS 32 (the 2-node stage). If an application is not possible at GS 30 – 32 due to environmental or field conditions, do not apply later than GS 39.</li> <li>For split application – Make the first application at GS 14-32 and the second at GS 32-39. Apply no more than 31.38 fl.Oz/acre total. Recommended split application rate: Apply at a dose rate of 15.69 fl. oz. of Adjust SL per acre (0.63 lb.a.i. per acre) between GS 14 (the 4-leaf stage) and GS 32 (the 2-node stage) followed by a second application of 15.69 fl. oz. of Adjust SL per acre (0.63 lb. a.i. per acre) between GS 32 (the 2-node stage) to GS 39 (the flag leaf collar visible stage).</li> </ul>                                                                                                                                                                                                                      |
| <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>Maximum Annual Rate: DO NOT</b> apply more than 31.38 fl. oz. per acre (1.27 lb. a.i.) per calendar year.</li> <li>• <b>Maximum Single Application Rate: DO NOT apply more than</b> 31.38 fl. oz. (1.27 lb. a.i. per acre).</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply later than GS 39.</li> <li>• [Not registered for use by California]</li> </ul> |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CROP                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rate<br>fl. Oz./A<br>(lb. a.i./A) | Directions for Use<br>Growth Stages (GS) according to Zadoks scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Oats<br>Winter<br>and<br>Spring                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15.69-31.38<br>(0.63-1.27)        | <ul style="list-style-type: none"> <li>For single application – Apply at a dose rate of 31.38 fl. oz. of Adjust SL per acre (1.27 lb. a.i. per acre) between GS 30 (the beginning of stem elongation stage) to GS 32 (the 2-node stage). If an application is not possible at GS 30 – 32 due to environmental or field conditions, do not apply later than GS 39.</li> <li>For split application – Make the first application at GS 14-32 and the second at GS 32-39. Apply no more than 31.38 fl.Oz/acre total. Recommended split application rate: Apply at a dose rate of 15.69 fl. oz. of Adjust SL per acre (0.63 lb.a.i. per acre) between GS 14 (the 4-leaf stage) and GS 32 (the 2-node stage) followed by a second application of 15.69 fl. oz. of Adjust SL per acre (0.63 lb. a.i. per acre) between GS 32 (the 2-node stage) to GS 39 (the flag leaf collar visible stage).</li> </ul>                                                                                                                                                                                                                      |
| CROP                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Rate<br>fl. Oz./A<br>(lb. a.i./A) | Directions for Use<br>Growth Stages (GS) according to Zadoks scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Triticale                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15.69-31.38<br>(0.63-1.27)        | <ul style="list-style-type: none"> <li>For single application – Apply at a dose rate of 31.38 fl. oz. of Adjust SL per acre (1.27 lb. a.i. per acre) between GS 30 (the beginning of stem elongation) to GS 32 (the 2-node stage). If an application is not possible at GS 30 – 32 due to environmental or field conditions, do not apply later than GS39.</li> <li>For split application – Make the first application at GS 12-30 and the second at GS 31-39. Apply no more than 31.38 fl.Oz/acre total. Recommended split application rate: Apply at a dose rate of 15.69 fl. oz. of Adjust SL per acre (0.63 lb.a.i. per acre) between GS 12 (the 2-leaf stage) and GS 30 (the beginning of stem elongation stage) followed by a second application of 15.69 fl. oz. of Adjust SL per acre (0.63 lb. a.i. per acre) between GS 31 (the 1-node stage) to GS 32 (the 2-node stage). If the second application is not possible due to environmental or field conditions, do not apply later than GS 39. This application is recommended when the crop is growing vigorously due to environmental conditions.</li> </ul> |
| <b>Restrictions:</b> <ul style="list-style-type: none"> <li>• <b>Maximum Annual Rate: DO NOT</b> apply more than 31.38 fl. oz. per acre (1.27 lb. a.i.)</li> <li>• <b>Maximum Single Application Rate: DO NOT apply more than</b> 31.38 fl. oz. (1.27 lb. a.i. per acre).</li> <li>• <b>DO NOT</b> make more than 2 applications per year.</li> <li>• <b>DO NOT</b> apply later than GS 39.</li> <li>• [Not registered for use by California]</li> </ul>                    |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Explanation of Growth Stages for Gramineous Crops

| Feekes | Zadoks | Description                                         |
|--------|--------|-----------------------------------------------------|
| 1      | 12     | 2 leaves unfolded                                   |
| 2      | 21     | Main shoot and first tiller                         |
| 3      | 26     | Main shoot and six tillers                          |
| 4      | 30     | Pseudo stem elongation, leaf sheaths erect          |
| 5      | 30     | Pseudo stem elongation, leaf sheaths strongly erect |
| 6      | 31     | First node detectable                               |
| 7      | 32     | Second node detectable                              |
| 8      | 37     | Flag leaf just visible                              |
| 9      | 39     | Flag leaf ligule/collar just visible                |

## MANDATORY SPRAY DRIFT MANAGEMENT:

### For All Applications

- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 15 miles per hour.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Wind speed and direction must be measured on location using a windsock, an anemometer (including systems to measure wind speed or velocity on an aircraft), or an aircraft smoke system.
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees that are not the target crop, buildings, and farm equipment.
- Do not apply during temperature inversions.

### Aerial Applications

- Select nozzle and pressure that deliver medium or coarser spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with the most current American Society of Agricultural & Biological Engineers standards (ASABE S572.1). When applying to crops via aerial application equipment, the spray boom must be mounted on the aircraft to minimize drift caused by wing tip or rotor blade vortices.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- When the wind speed is between 11-15 miles per hour, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- When the wind speed is between 11-15 miles per hour, applicators must use a minimum of  $\frac{3}{4}$  swath displacement upwind at the downwind edge of the field. Otherwise, applicators must use a minimum of  $\frac{1}{2}$  swath displacement upwind at the downwind edge of the field.
- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.

### Ground Boom Applications

- Select nozzle and pressure that deliver medium or coarser spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with the most current American Society of Agricultural & Biological Engineers standards (ASABE S572.1).
- Spray at the appropriate boom height based on nozzle selection and nozzle spacing, but do not exceed a boom height of 3 feet above ground or crop canopy. Set boom to lowest effective height over the target pest or crop canopy based on equipment manufacturer's directions.

### Boom-less Ground Applications

- Select nozzle and pressure that deliver medium or coarser spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with the most current American Society of Agricultural & Biological Engineers standards (ASABE S572.1).

When tank mixing, the most restrictive of the products' label or bulletin requirements must be followed (e.g., drift buffers that are not wind-directional, Application Exclusion Zone drift requirements, drift buffers to residences, schools, and parks where bystanders could be present, use prohibitions, timing restrictions, and application method prohibitions)."

## ADDITIONAL SPRAY DRIFT INFORMATION:

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. Be aware of nearby non-target sites and environmental conditions.

## IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### Controlling Droplet Size - Ground Application

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Consider using the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Using the lowest spray pressure recommended for the nozzle will produce the target spray volume and droplet size.
- Spray Nozzle – Consider using a spray nozzle that is designed for the intended application, as well as using nozzles designed to reduce drift.

### Controlling Droplet Size – Aerial Application

- Adjust Nozzles – Applicators should follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

## RELEASE HEIGHT – Ground Application

For ground equipment, the boom should remain level with the crop and have minimal bounce. Automated boom height controllers are recommended with large booms to better maintain optimum nozzle-to-canopy height. Excessive boom height will increase the potential for spray drift.

## RELEASE HEIGHT – Aerial Application

Higher release heights increase the potential for spray drift.

## HOODED (OR SHIELDED) SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using hooded sprayers. Applicators should verify that the shields are not interfering with the uniform deposition of the spray on the target area.

## TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

## TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

## WIND

Drift potential generally increases with wind speed. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## MEASURING WIND SPEED AND WIND DIRECTION

Applicators should check and acquire the predicted wind speed and direction for the application site within 12 hours prior to conducting applications to determine the time periods wind speed is likely to fall outside the applicable thresholds.

- Applicators should reassess wind speed and direction at the application site once per hour while applications are in progress.
- Measuring wind speed and direction can be done by:
  - Relying on equipment on the application equipment that measures wind speed (e.g., aerial equipment).
  - Using a tower anemometer with telemetry or handheld anemometer. Users should read user manual on how to calibrate, operate and interpret the output from an anemometer. Ground applicators should stop once per hour to take a reading with a tower anemometer with telemetry or handheld anemometer. Some anemometers may have software that would allow users to view wind measurements in real time while making an application, and, in those cases, applicators would not have to stop to take measurements.
  - Using a windsock. Wind can be estimated with a windsock using the strips on a windsock. The applicator should consult the user manual for the windsock on wind speed estimation and direction of wind. Applicators should look at the sock at least once per hour to estimate wind speed and direction. The windsock should be pointed in the opposite direction of the windbreak and the non-managed area.
- Using an aircraft smoke system. Laying down several puffs of smoke along different lines using an aircraft smoke system can provide an accurate view of the wind speed and direction for the application.
- Checking behind the spray rig at least once per hour to see if the spray has changed direction from when the application started.

### Boom-less Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

### Handheld Technology Applications:

Take precautions to minimize spray drift.

## APPLICATION INSTRUCTIONS

### Aerial Applications:

- Do not apply in less than 2 gallons of diluent per acre.
- Thorough coverage is necessary to provide a good and uniform effect.

### Ground Boom Applications:

- Do not apply in less than 10 gallons of diluent per acre.
- Thorough coverage is necessary to provide a good and uniform effect.

### Chemigation Applications:

- Use only irrigation systems that provide uniform distribution. Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s). Do not apply this product through any other type of irrigation system.
- Apply in 0.1-0.25 inches per acre of water. Excessive water may reduce efficacy.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from *non-uniform* distribution of treated water.
- If you have questions about calibration, or proper chemigation application methods you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- It is not recommended to use end guns when applying through chemigation, as this could result in *non-uniform* application.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Do not contaminate water, food, or feed by use or storage. Store in original containers only in a secured area inaccessible to children and unauthorized persons. Absorb spills onto clay, sand or vermiculite and hold for proper disposal. Protect from excessive heat. Keep from freezing.

**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 at the nearest EPA Regional Office for guidance.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  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. Offer for recycling, if available.

**TERMS OF SALE OR USE:** On purchase of this product, buyer and user agree to the following conditions:

**Warranty:** To the extent consistent with applicable law, Taminco US LLC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

**Damages:** To the extent consistent with applicable law, buyer's, or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

For emergencies involving a spill, leak, fire, exposure, or accident, contact: CHEMTREC at (800) 424-9300. For product usage information, contact Taminco US LLC, at 888-321-8472.

**Manufactured/Distributed for:**

**Taminco US LLC, a subsidiary of Eastman Chemical Company**  
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