

PMRA Approved Label  
2023-6667  
2025-02-19

## **MODDUS®**

PLANT GROWTH REGULATOR

COMMERCIAL

EMULSIFIABLE CONCENTRATE

MODDUS® is a micro-emulsion concentrate that will aid in the growth and lodging management of wheat, barley, rye and oats, and growth management of perennial ryegrass grown for seed.

**ACTIVE INGREDIENT:**

Trinexapac-ethyl ..... 11.3%

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN  
WARNING: EYE IRRITANT**

REGISTRATION NO.: **33930**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L-1000 L**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, ON N1G 4Z3  
Telephone: 1-877-964-3682

Label

## 1.0 NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

## 2.0 FIRST AID

**IN CASE OF POISONING**, contact a physician or a poison control center **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If in eyes**, 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 eye. Call a poison control centre or doctor for treatment advice.

**If on skin or clothing**, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled**, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

## 3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote if this product is ingested. Treat symptomatically. Do not induce emesis.

## 4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN.

HARMFUL IF SWALLOWED. Causes eye irritation. DO NOT get in eyes.

Avoid contact with skin.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

### **RESTRICTED-ENTRY INTERVAL:**

**Cereal Uses: DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. **Perennial Ryegrass Grown for Seed: DO NOT** enter or allow worker entry during the restricted-entry interval (REI) of 10 days for all post application activities.

Do not apply when weather conditions favour drift from treated areas.

If this pest control product is to be used on a commodity that may be exported outside of Canada and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA/1-877-964-3682.

## **5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.

**DO NOT** allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Wash with soap and water after handling, and before eating, drinking or smoking. Remove clothing immediately if pesticide gets inside. Wash contaminated clothing, separately from household laundry, before re-use. Do not wear contaminated shoes. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

All users should wash hands before eating, drinking, chewing gum, using tobacco, using the toilet or using a handheld device.

## **6.0 ENVIRONMENTAL PRECAUTIONS**

Toxic to non-target terrestrial plants and aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

## **7.0 STORAGE**

Store this product away from food or feed. Keep in original container, tightly closed, during storage. Store in a cool, dry, well ventilated area, and out of the reach of children and animals.

## 8.0 DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

### **For returnable containers**

**DO NOT** reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

### **For refillable containers**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. **DO NOT** reuse this container for any other purpose.

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**DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Wash with soap and water after handling, and before eating, drinking or smoking. Remove clothing immediately if pesticide gets inside. Wash contaminated clothing, separately from household laundry, before re-use. Do not wear contaminated shoes. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

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## **6.0 ENVIRONMENTAL PRECAUTIONS**

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To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

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## 9.0 PRODUCT INFORMATION

MODDUS Plant Growth Regulator aids in the growth and lodging management of wheat, barley, rye and oats and the growth of perennial ryegrass grown for seed.

MODDUS Plant Growth Regulator reaches the growing point by foliar uptake. Field data has indicated that MODDUS Plant Growth Regulator is rainfast after 3 hrs.

Environmental conditions, crop management, and cultural practices that affect plant growth and vigour will influence the response of the crop to MODDUS Plant Growth Regulator applications.

NOTE: Due to risk of injury to the crop, avoid overlapping and do not apply to wheat, barley, rye, oats or perennial ryegrass that are stressed, such as by low fertility, high temperatures, drought, frost or diseased or insect-damaged.

## 10.0 DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

### 10.1 Crop Tolerance

Plant tolerance has been found acceptable for all crops on the label, however, not all possible tank mix combinations have been tested under all conditions nor have all varieties been tested under all conditions. When possible, it is recommended to test the combinations on a small portion of the crop to ensure a phytotoxic response will not occur as a result of application.

### 10.2 Ground Application

**Field sprayer application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

### 10.2.1 Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with  $\frac{1}{2}$  the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
2. Add any WG or DF formulation mix partners and agitate to ensure complete mixing.
3. Add any SE or SC formulation mix partners and agitate to ensure complete mixing.
4. Add MODDUS and agitate to ensure complete mixing.
5. Add any EC formulation mix partners and agitate to ensure complete mixing.
6. Fill the tank to  $\frac{3}{4}$  the required amount of water.
7. Add any solution (SN or SL) formulation mix partners and agitate to ensure complete mixing.
8. Finish filling the sprayer with water, maintaining good agitation.
9. After any break in spraying operations, agitate thoroughly before spraying again.
10. Spray the pesticide suspension the same day as mixing.
11. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply:

- WG and DF formulations are preferentially batch mixed.
- SC, SN, and SL formulations may be inducted or batch mixed.
- EC formulations are preferentially batch mixed.

### 10.2.2 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 100 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Sprayer Agitation: Use a jet agitator or liquid sparge tub which recirculates 10% or more of the tank per minute. **DO NOT** use an air sparger.
3. Pump: Screens should be used to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom unless directed otherwise by the sprayer manufacturer.
4. Spray Nozzles: Use a hydraulic nozzle with 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles with up to 80 mesh screens. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
5. Pressure: As recommended by the nozzle manufacturer to achieve no finer than ASAE medium sized droplets.
6. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

### 10.2.3 Equipment Clean-Up

#### Before Spraying:

- Prior to using MODDUS, ensure that the spray tank, lines and filter are thoroughly clean.

#### After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow MODDUS

- residue to dry within the spray tank.
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
  - The following recommendations are provided:
    1. Drain and flush tank walls, boom and all hoses for ten minutes with clean water. Rinse with clean water. **DO NOT** clean the sprayer near desirable vegetation, wells or other water sources.
    2. Remove all nozzles and screens and wash separately.
    3. Dispose of all rinsate in accordance with provincial/territorial regulations.

### 10.3 Aerial Application

**Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions, and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

#### 10.3.1 Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

#### 10.3.2 Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

All ground crew and the mixer/loaders must wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing and loading.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### 10.3.3 Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call Syngenta Canada Inc. at 1-877-964-3682 or [www.syngenta.ca](http://www.syngenta.ca) or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 50 litres per hectare.

### 10.3.4 Mixing Instructions

Mixing this product directly in the aircraft hopper **IS NOT** recommended. The use of chemical handling or managing equipment to load the hopper **IS** recommended. This product **is not recommended for** induction into a hopper without additional carrier water. This product **MAY BE** batch mixed and pumped into the hopper. In all cases the chemical handling equipment and hopper interior must be clean prior to use.

**NOTE:** WG and DF formulations are preferentially batch mixed.

**NOTE:** SC, SN, and SL formulations may be inducted or batch mixed.

**NOTE:** EC formulations are preferentially batch mixed.

It is **NOT** recommended to combine solid (WG or DF) formulations with liquid tank mix partners within a single batch. Batch mix WG or DF formulations first, pump into the hopper, and then add liquid tank mix partners by induction or as an additional batch mix. When tank mixing multiple products, follow the mixing order outlined below:

1. Pump water into the hopper to at least  $\frac{1}{4}$  to  $\frac{1}{2}$  of the desired spray volume. Engage hopper circulation, if possible.
2. Thoroughly batch mix any WG or DF formulation mix partners and agitate to ensure complete mixing. Pump into the hopper.
3. Induct or thoroughly batch mix any SE or SC formulations.
4. Induct or thoroughly batch mix MODDUS and any EC formulation mix partners. EC formulations may be added to the batch from Step 3, if desired.
5. Induct or thoroughly batch mix any solution (SN or SL) formulation mix partners. SN/SL formulations may be added to the batch from Step 3, if desired.
6. Pump batch mixed SC, EC, and/or SN/SL products into the hopper.
7. Finish filling the hopper with water.
8. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
9. Spray the pesticide suspension the same day as mixing.
10. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

### 10.3.5 Spraying Instructions

1. Water volume: Apply in a minimum spray volume of 50 L/ha aerial OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Nozzles: Use no finer than ASAE medium nozzles rated as delivering droplets of volume median diameter of 300 microns or greater.

3. **Pressure:** As recommended by the nozzle manufacturer to achieve no finer than ASAE medium sized droplets.
4. Ensure hopper agitation is engaged whenever possible during flight.

### 10.3.6 Equipment Clean-Up

#### Before Spraying:

- Prior to using MODDUS, ensure that the hopper, chemical handling equipment, lines and filter are thoroughly cleaned.

#### After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow MODDUS residue to dry within application equipment.
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
  1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
  2. Remove all nozzles and screens and wash separately.
  3. Dispose of all rinsate in accordance with provincial/territorial regulations.

### 10.4 Spray buffer zones

A spray buffer zone is NOT required for uses with hand-held application equipment permitted on this label.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop	Spray buffer zones (metres) required for the protection of:		
		Freshwater habitat of depths		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	Perennial ryegrass grown for seed	1	1	1

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

## 11.0 CROP USE DIRECTIONS

### 11.1 Spring Wheat (Including Durum)

<b>Crop</b>	Spring Wheat (including Durum)
<b>Rate</b>	0.83 - 1.03 L/ha (100 - 125 g ai/ha) (rate for single application)
<b>Application timing</b>	BBCH 30-39 (pseudo stem erection to ligule of last leaf visible)
<b>Number of applications</b>	1
<b>Notes</b>	<p>Use the higher rate in varieties that are more prone to lodging and in fields that are intensively managed (e.g. high fertility, high seed rate).</p> <p>Optimal application timing is at BBCH 30-32 (beginning of stem elongation to Node 2). Do not apply MODDUS past BBCH 39. Due to risk of injury to the crop, avoid overlapping and do not apply to wheat that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage. Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Rate</b>	0.41 - 0.52 L/ha (50 - 63 g ai/ha) (rate for split applications)
<b>Application timing</b>	<p>Make the first application at BBCH 21-24 (main shoot and tiller). Make the second application at BBCH 37-39 (flag leaf just visible to ligule of last leaf visible).</p>
<b>Number of applications</b>	2
<b>Notes</b>	<p>Use the higher rate in varieties that are more prone to lodging and in fields that are intensively managed (e.g. high fertility, high seed rate).</p> <p>Do not apply MODDUS past BBCH 39.</p> <p>Due to risk of injury to the crop, avoid overlapping and do not apply to wheat that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage. Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Restricted Entry Interval (REI)</b>	<b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

## 11.2 Winter Wheat

<b>Crop</b>	Winter Wheat
<b>Rate</b>	0.83 - 1.03 L/ha (100-125 g ai/ha) (rate for single application)
<b>Application timing</b>	BBCH 30-39 (beginning of stem elongation to flag leaf stage). Optimal application timing is at BBCH 30-32.
<b>Number of applications</b>	1
<b>Note</b>	<p>Use the higher rate in varieties that are more prone to lodging and in fields that are intensively managed (e.g. high fertility, high seeding rate).</p> <p>Do not apply MODDUS past BBCH 39.</p> <p>Due to risk of injury to the crop, avoid overlapping and do not apply to wheat that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage.</p> <p>Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Restricted Entry Interval (REI)</b>	<b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

## 11.3 Barley

<b>Crop</b>	Barley
<b>Rate</b>	1.03 L/ha (125 g ai/ha) (rate for single application)
<b>Application timing</b>	BBCH 30-39 (pseudo stem erection to ligule of last leaf visible)
<b>Number of applications</b>	1
<b>Notes</b>	<p>Optimal application timing is at BBCH 30-32. Do not apply MODDUS past BBCH 39. Due to risk of injury to barley, avoid overlapping and do not apply to barley that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage.</p> <p>Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Rate</b>	0.52 L/ha (63 g ai/ha) (rate for split applications)
<b>Application timing</b>	<p>Make the first application at BBCH 21-24 (main shoot and tiller).</p> <p>Make the second application at BBCH 37-39 (flag leaf just visible to ligule of last leaf visible).</p>
<b>Number of applications</b>	2
<b>Notes</b>	<p>Do not apply MODDUS past BBCH 39.</p> <p>Due to risk of injury to barley, avoid overlapping and do not apply to barley that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage.</p> <p>Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Restricted Entry Interval (REI)</b>	<b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

## 11.4 Oats

<b>Crop</b>	Oats
<b>Rate</b>	0.83 L/ha (100 g ai/ha) (rate for single application)
<b>Application timing</b>	BBCH 30-39 (pseudo stem erection to ligule of last leaf visible)
<b>Number of applications</b>	1
<b>Notes</b>	<p>Optimal application timing is at BBCH 30-32 (beginning of stem elongation to Node 2). Do not apply MODDUS past BBCH 39. Due to risk of injury to the crop, avoid overlapping and do not apply to oat that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage. Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Rate</b>	0.41 L/ha (50 g ai/ha) (rate for split applications)
<b>Application timing</b>	<p>Make the first application at BBCH 21-24 (main shoot and tiller). Make the second application at BBCH 37-39 (flag leaf just visible to ligule of last leaf visible).</p>
<b>Number of applications</b>	2
<b>Notes</b>	<p>Do not apply MODDUS past BBCH 39.</p> <p>Due to risk of injury to the crop, avoid overlapping and do not apply to oat that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage. Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Restricted Entry Interval (REI)</b>	<b>DO NOT</b> enter or allow worker re-entry during the restricted entry interval (REI) of 12 hours.

### 11.5 Perennial Ryegrass Grown for Seed

<b>Crop</b>	Perennial Ryegrass Grown for Seed
<b>Rate</b>	1.7 – 3.4 L/ha
<b>Application timing</b>	<p>Before or during stem elongation stage of development (Zadoks growth stage 30-37 or Feekes stages 5-8).</p> <p>NOTE: Although this product is effective at any time in this growth stage the BEST timing is early (Zadoks growth stage 32 or Feekes 7) when the second node on the main stem is detectable.</p> <p><b>Perennial rye grass stand is required to go through one winter vernalization period prior to product application.</b></p>
<b>Notes</b>	<p>Make only one (1) application per season.</p> <p>Use ground equipment only.</p> <p>Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage. <b>DO NOT</b> apply to forage-type perennial ryegrass.</p> <p>For seed production only, seed screenings and aftermath from the harvesting of the crop can be fed to livestock 50 days following <b>application of MODDUS® Plant Growth Regulator.</b></p>
<b>Restricted Entry Interval (REI)</b>	<b>DO NOT</b> enter or allow worker entry during the restricted-entry interval (REI) of 10 days for all postapplication activities.
<b>Restrictions</b>	When using this product on perennial ryegrass grown for seed, do not handle more than 70 kg a.i. per day.

### 11.6 Rye

<b>Crop</b>	<b>Rye</b>
<b>Rate</b>	0.83 - 1.03 L/ha (100-125 g ai/ha) (rate for single application)
<b>Application timing</b>	BBCH 30-39 (beginning of stem elongation to flag leaf stage).
<b>Number of applications</b>	1
<b>Note</b>	<p>Use the higher rate in varieties that are more prone to lodging and in fields that are intensively managed (e.g. high fertility, high seeding rate).</p> <p>Do not apply MODDUS past BBCH 39.</p> <p>Due to risk of injury to the crop, avoid overlapping and do not apply to rye that is environmentally stressed.</p> <p>Ground application: Use a minimum of 100 L of water per hectare. Use sufficient water for thorough coverage.</p> <p>Aerial application: Use a minimum of 50 L of water per hectare.</p>
<b>Restricted Entry Interval (REI)</b>	<b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

### 11.7 Preharvest/Grazing Intervals (PHI/PGI)

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<b>Commodity</b>	<b>PHI/PGI (days)</b>
Cereals – forage and hay	30
Cereals - grain and straw	Harvest at maturity

### 11.8 Plant-back Interval (PBI)

<b>Commodity</b>	<b>PBI (days)</b>
Wheat, Barley, Oats and Rye	0
All Other Feed and Food Crops	30

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