

# CAUTION

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Optex®

## Plant Growth Regulator

ACTIVE CONSTITUENT: **175 g/L TRINEXAPAC-ETHYL**

Crop/Situation: Barley, Oats and Wheat

Uses: Reduces lodging/brackling and enhances yield as per the Directions for Use Table



# ADAMA

Formulation type  
Emulsifiable  
Concentrate



adama.com

CONTENTS: 1 L - 1000 L

### DIRECTIONS FOR USE

#### RESTRAINT

**DO NOT** apply to crops under stress, suffering from nutrient deficiency, disease, drought stress, insect or nematode damage, herbicide effects or frost.

#### SPRAY DRIFT RESTRAINTS

**DO NOT** apply with spray droplets smaller than a **MEDIUM** spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council (BCPC) Guideline.

**DO NOT** apply when wind speed is less than 3 or more than 20 kilometres at the application site.

**DO NOT** apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application, and must **KEEP** this record for at least 2 years. The spray application details that must be recorded are:

1) date with start and finish times of application; 2) location address and paddock(s) sprayed; 3) full name of this product; 4) amount of product used per hectare and number of hectares applied to; 5) crop or situation and weed or pest; 6) wind speed and direction during application; 7) air temperature and relative humidity during application; 8) nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; 9) name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

#### MANDATORY NO-SPRAY ZONES

**DO NOT** apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitats downwind from the application area and within the **mandatory no-spray zones** shown in the table below:

For Aerial Application	Downwind Mandatory No-Spray Zone	
	Fixed Wing	Helicopter
Wind Speed Range at Time of Application		
3 to 8 kilometres per hour	0 metres	0 metres
8 to 20 kilometres per hour	20 metres	20 metres

# ADAMA

CROP	USE	RATE	CRITICAL COMMENTS
Barley	Reduction in peduncle length for the suppression of brackling/head loss	285 to 570 mL/ha	Apply to actively growing, healthy crops. Apply at the beginning of stem elongation (GS30-32) when the 2nd node is detectable on the main tiller and the majority of the other tillers have the 1st node detectable above ground level. <b>DO NOT apply after growth stage 32 (stem elongation).</b> Use the higher rates (430 to 570 mL/ha) when Barley variety has long peduncle combined with high yielding ear.
	Maintain or increase grain yield potential by reducing lodging, reducing excessive crop biomass, enhancing general crop development	430 to 570 mL/ha	Apply to actively growing, healthy crops. Apply at the beginning of stem elongation (GS30-32) when the 2nd node is detectable on the main tiller and the majority of the other tillers have the 1st node detectable above ground level. Use the higher rate when plant populations, soil moisture and nutritional levels favour high biomass crop development. In some situations crop development may be delayed by up to 7 to 10 days at anthesis, but total days to maturity will not generally be affected. <b>DO NOT apply after growth stage 32 (stem elongation).</b>
Oats			Apply to actively growing, healthy crops. Apply at the beginning of stem elongation (GS30-32) when the 2nd node is detectable on the main tiller and the majority of the other tillers have the 1st node detectable above ground level. <b>DO NOT apply after growth stage 32 (stem elongation).</b> Use the higher rate when plant populations, soil moisture and nutritional levels favour high biomass crop development. In some situations crop development may be delayed by up to 7 to 10 days at anthesis, but total days to maturity will not generally be affected.
Wheat		430 to 570 mL/ha OR 285 mL/ha plus 1000 to 1300 mL/ha chlormequat 750 g/L	Apply to actively growing, healthy crops. Apply at the beginning of stem elongation (GS30-32) when the 2nd node is detectable on the main tiller and the majority of the other tillers have the 1st node detectable above ground level. <b>DO NOT apply after growth stage 32 (stem elongation).</b> Use the higher solo rate or mixture when plant populations, soil moisture and nutritional levels favour high biomass crop development. In some situations crop development may be delayed by up to 7 to 10 days at anthesis, but total days to maturity will not generally be affected.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**

#### WITHHOLDING PERIOD

**Harvest:**

**NOT REQUIRED WHEN USED AS DIRECTED**

**Grazing:**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION**

**EXPORT SLAUGHTER INTERVAL (ESI)**

**NOT REQUIRED WHEN USED AS DIRECTED**

**EXPORT GRAZING INTERVAL (EGI)**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION**

#### EXPORT TRADE ADVICE

Grain harvested from cereal crops treated with OPTEX® may contain finite (measurable) residues of trinexapac-ethyl and may pose a risk to trade in situations where no import tolerance is established in the importing country or where residues in Australian commodities are likely to exceed an import tolerance established by the importing country. Before you use this product, you are advised to contact Adama and/or your industry body about potential trade issues and their management. If you use this product and grain harvested from treated crops is destined for export, you are required to declare the use of OPTEX® to buyers of the grain, when requested or when required by contract or trade terms.

## GENERAL INSTRUCTIONS

OPTEX® is absorbed by the leaves and stems.

OPTEX® has no direct root or soil activity.

OPTEX® is absorbed quickly into the plant tissue and rapidly translocated to the growing parts.

OPTEX® is rainfast within 2 hours of application.

## MIXING

OPTEX® is an emulsifiable concentrate (EC) with minimal odour as the product does not contain petroleum solvents. OPTEX® mixes completely with water and may be tank mixed with many commonly used fungicides and liquid fertilizers. Add the required quantity of OPTEX® directly to a spray tank containing 2/3 of the required spray volume. Add the rest of the water and ensure the mix is thoroughly agitated before application.

## APPLICATION AND GROWING CONDITIONS

OPTEX® should be applied under good growing conditions with adequate soil moisture. OPTEX® should not be applied to crops that are under stress due to very dry, very wet, frosty conditions, nutrient deficiency or high insect pressure, as this may give less than reliable results.

## APPLICATION

Apply OPTEX® by ground or aerial application using medium to coarse spray droplets according to the ASAE S572 Standard or the BCPC Guideline. Only apply OPTEX® using accurately calibrated spray equipment.

OPTEX® may be applied by ground boom spray or aircraft. Ensure complete coverage of all leaves and stems is obtained.

**Boom Application:** Apply in a spray volume of 100 to 200 L/ha using flat fan nozzles and a medium to coarse spray quality.

**Aerial Application:** Apply in a spray volume of 20 to 30 L/ha, with the lower rate used when applications are made with a cross wind of not less than 5 knots. Use the higher spray volume when applying to dense crops.

## COMPATIBILITY

OPTEX® is physically compatible with a wide range of products, however the biological compatibility of these mixtures may not have been fully tested under all environmental and biological conditions.

A mixture of OPTEX® with any other product may in some circumstances affect the growth regulatory response. If tank mixes are to be used observe all directions, precautions and limitations on all products to be used. As formulations of other manufacturer's products are beyond the control of Adama, and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities.

## RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Clothing must be laundered after each day's use.

## FLAGGERS

DO NOT use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

## STORAGE AND DISPOSAL

**Non-Refillable Containers (1-100 L):** Store in the closed, original container in a cool, wellventilated area. DO NOT store for prolonged periods in direct sunlight. These containers can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple rinse container for disposal. Dispose of rinsate or any undiluted chemical according to state legislative requirements. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

**110 L:** Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the container have been used, please return the container to the point of purchase. This container remains the property of Adama Australia.

**Refillable Containers (1000 L):** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

## SAFETY DIRECTIONS

Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing the product for use, wear cotton overalls buttoned to neck and wrist, elbow-length PVC gloves and face shield or goggles. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

## FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone 13 11 26.

**SAFETY DATA SHEET**

If additional hazard information is required refer to the Safety Data Sheet. A safety data sheet for OPTEX® is available from adama.com or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of OPTEX® being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purposes for which it is used by the buyer, whether in accordance with the Directions for Use or not. Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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