

FOR SPECIALIST ADVICE IN AN EMERGENCY DIAL

**1800 033 111**

ALL HOURS AUSTRALIA WIDE



**Conquest Crop Protection Pty Ltd.**

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APVMA Approval No: 81776/104036

**CONQUEST**

# AMINE 700

**SELECTIVE HERBICIDE**

## NEW SPRAY DRIFT INSTRUCTIONS

This is a PHENOXY HERBICIDE that can cause severe damage to native vegetation and susceptible crops such as cotton, grapes, tomatoes, oilseed crops and ornamentals.

**IMPORTANT: READ THIS PERMIT THOROUGHLY  
BEFORE USING THE PRODUCT.**



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## RESTRAINTS

**DO NOT** apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

**DO NOT** allow bystanders to come into contact with the spray cloud.

**DO NOT** apply unless the wind speed is between 3 and 15 kilometres per hour at the application site during the time of application.

**DO NOT** apply if there are surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise

## Recognising a surface temperature inversion

A surface temperature inversion is likely to be present if:

- Mist, fog, dew or a frost have occurred
- Smoke or dust hangs in the air and moves sideways, just above the ground surface
- Cumulus clouds that have built up during the day collapse towards evening
- Wind speed is constantly less than 11 km/hr in the evening and overnight
- Cool off-slope breezes develop during the evening and overnight
- Distant sounds become clearer and easier to hear
- Aromas become more distinct during the evening than during the day.

*Information from GRDC Fact Sheet: 'Surface Temperature Inversions and Spraying', Jul 2014.*

## Spray timing

- Spray during the day wherever possible. Vertical mixing of the air makes surface temperature inversions unlikely and will reduce the risk of drift caused by surface temperature inversions.
- There is a very low risk of surface temperature inversion when there is continuous overcast weather, with low and heavy cloud and/or wind speed remains above 11km/h for the whole period between sunset and sunrise.
- A lack of suitable weather conditions for spraying over extended periods is not an excuse for spraying in unsuitable conditions.

**DO NOT** apply if crop or weeds are stressed due to dry or excessively moist conditions.

**DO NOT** apply with spray droplets smaller than VERY COARSE spray droplets according to the ASAE S572.1 definition for standard nozzles.

**DO NOT** use if rain is likely within 6 hours.

## Monitoring and record keeping

Users of this product **MUST** make an accurate written record of the details of each spray application within 24 hours following application and KEEP this record for a minimum of 2 years. The spray application details that must be recorded are: 1- date of use with start and finish times of application; 2- the specific location which must include address and paddock/s sprayed; 3- Product trade name (full name) of the product being used; 4- rate of application which must include the amount of product used per hectare and number of hectares applied to; 5- situation, crop or commodity to which the chemical was applied; 6- wind speed and direction during application; 7- air temperature and relative humidity during application; 8- nozzle brand, model, size, type, and spray system pressure measured during application; 9- height of spray boom from ground ; 10- name and contact details of person applying this product (Additional record keeping and/or details may be required by the state or territory where this product is used).

**Watch for changes in weather conditions. Stop spraying immediately if a surface temperature inversion occurs or if spraying conditions become unsuitable for any other reason.**

### ADVISORY FOR BOOM SPRAYER USE IN CEREALS, FALLOW AND PASTURE 1<sup>ST</sup> OCTOBER TO 15 APRIL

USE IN CEREALS, FALLOW AND PASTURES DURING THE PERIOD 3<sup>rd</sup> OCTOBER TO 15<sup>TH</sup> APRIL, IT IS ADVISED TO:-

USE NOZZLES THAT PRODUCE **EXTREMELY COARSE (XC) TO ULTRA COARSE (UC) DROPLETS.**

USE HIGHER WATER RATES PER HA, TO GIVE BETTER EFFICACY.

USE SLOWER APPLICATION SPEEDS TO ALLOW OPERATORS TO LOWER BOOM HEIGHTS.

INCREASING DROPLET SIZE AND WATER RATES WHILE REDUCING APPLICATION SPEED WILL ASSIST IN MITIGATING OFF TARGET INVERSION DRIFT DURING SUMMER SPRAYING. EXTREMELY COARSE DROPLETS WILL PRODUCE <3% DRIFTABLE DROPLETS.

## BOOM SPRAYERS (ground application)

**DO NOT** apply by a boom sprayer unless the following requirements are met:

- spray droplets not smaller than a VERY COARSE (VC) spray droplet size category (minimum XC between 3 October and 15 April - advisory)
- boom heights 0.5 metres or lower above the target canopy (The higher of either the crop canopy or the targeted weeds)
- minimum distances between the application site and downwind sensitive aquatic

and wetland areas including aquacultural ponds, surface streams and rivers (see Aquatic 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for boom sprayers') are observed.

- minimum distances between the application site and downwind sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat (see Terrestrial 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for boom sprayers') are observed. The buffer zones provide guidance but may not always be completely protective of all agricultural crops.

#### **BUFFER ZONES FOR BOOM SPRAYERS:**

Application rate (/ha)	Downwind mandatory no spray zone	
	Aquatic	Terrestrial
<b>Dryland cropping: winter cereals and fallows</b>		
Up to 1.0 L (700 g ae/ha)	10 metres	10 metres
Up to 1.2 L (880 g ae/ha)	10 metres	10 metres
Up to 1.5 L (1050 g ae/ha)	20 metres	20 metres
<b>Dryland cropping: summer cereals</b>		
Up to 1.0 (700 g ae/ha)	10 metres	10 metres
<b>Tropical &amp; subtropical uses: Sugarcane</b>		
Up to 1.5 L (1050 g ae/ha)	20 metres	20 metres
Up to 3.1 L (2170 g ae/ha)	30 metres	30 metres
<b>Pasture</b>		
Up to 2.8 L (2000 g ae/ha)	30 metres	30 metres
Up to 3.8 L (2750 g ae/ha)	35 metres	35 metres
Up to 4.6 L (3300 g ae/ha)	45 metres	40 metres

#### **AERIAL APPLICATION**

**DO NOT** apply by aerial application unless the following requirements are met:

- spray droplets not smaller than a VERY COARSE (VC) spray droplet size category.
- release heights 5 metres or lower above the target canopy
- minimum distances between the application site and downwind sensitive aquatic and wetland areas including aquacultural ponds, surface streams and rivers (see Aquatic 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for aircraft') are observed.
- minimum distances between the application site and downwind sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat (see Terrestrial 'Downwind mandatory no-spray zone' section of the following table titled 'Buffer zones for aircraft') are observed. The buffer zones

provide guidance but may not always be completely protective of all agricultural crops.

#### **BUFFER ZONES FOR AIRCRAFT: 3 metre release height or lower above the target canopy**

Application rate (/ha)	Downwind mandatory no spray zone			
	Fixed wing		Helicopter	
	Aquatic	Terrestrial	Aquatic	Terrestrial
<b>Dryland cropping: winter cereals and fallows</b>				
Up to 1.0 L (700 g ae/ha)	70 metres	70 metres	65 metres	65 metres
Up to 1.2 L (880 g ae/ha)	80 metres	80 metres	75 metres	75 metres
Up to 1.5 L (1050 g ae/ha)	95 metres	90 metres	85 metres	85 metres
<b>Dryland cropping: summer cereals</b>				
Up to 1.0 L (700 g ae/ha)	70 metres	70 metres	65 metres	65 metres
<b>Tropical &amp; subtropical uses: Sugarcane</b>				
Up to 3.1 L (2170 g ae/ha)	170 metres	160 metres	150 metres	140 metres
<b>Tropical &amp; subtropical uses: Peanuts</b>				
Up to 3.2 L (2240 g ae/ha)	170 metres	160 metres	150 metres	150 metres

#### **BUFFER ZONES FOR AIRCRAFT: 5 metre release height or lower above the target canopy**

Application rate (/ha)	Downwind mandatory no spray zone			
	Fixed wing		Helicopter	
	Aquatic	Terrestrial	Aquatic	Terrestrial
<b>Dryland cropping: winter cereals and fallows</b>				
Up to 1.0 L (700 g ae/ha)	130 metres	120 metres	110 metres	110 metres
Up to 1.2 L (880 g ae/ha)	150 metres	150 metres	130 metres	120 metres
Up to 1.5 L (1050 g ae/ha)	180 metres	170 metres	140 metres	140 metres
<b>Dryland cropping: summer cereals</b>				
Up to 1.0 L (700 g ae/ha)	130 metres	120 metres	110 metres	110 metres
<b>Tropical &amp; subtropical uses: Sugarcane</b>				
Up to 3.1 L (2170 g ae/ha)	400 metres	375 metres	250 metres	220 metres
<b>Tropical &amp; subtropical uses: Peanuts</b>				
Up to 3.2 L (2240 g ae/ha)	425 metres	400 metres	250 metres	250 metres

## Pasture application by air – 5.0 m release height

### Aquatic protection

Wind speed range at time of application	Downwind no-spray zone	
	Fixed Wing	Helicopter
Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	600 metres	350 metres
From 7 to 14 kilometres per hour	675 metres	375 metres
Application rate 2750g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	500 metres	300 metres
From 7 to 14 kilometres per hour	550 metres	300 metres
Application rate 2000g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	375 metres	190 metres
From 7 to 14 kilometres per hour	375 metres	220 metres

### Terrestrial protection (2,4-D salt formulations)

Wind speed range at time of application	Downwind no-spray zone	
	Fixed Wing	Helicopter
Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	575 metres	350 metres
From 7 to 14 kilometres per hour	650 metres	350 metres
Application rate 2750g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	475 metres	275 metres
From 7 to 14 kilometres per hour	525 metres	300 metres
Application rate 2000g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	350 metres	180 metres
From 7 to 14 kilometres per hour	350 metres	210 metres

## Pasture application – 3.0 m release height

### Aquatic protection

Wind speed range at time of application	Downwind no-spray zone	
	Fixed Wing	Helicopter
Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	600 metres	350 metres
From 7 to 14 kilometres per hour	675 metres	375 metres
Application rate 2750g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	250 metres	150 metres
From 7 to 14 kilometres per hour	250 metres	180 metres
Application rate 2000g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	160 metres	90 metres
From 7 to 14 kilometres per hour	160 metres	140 metres

### Terrestrial protection (2,4-D salt formulations)

Wind speed range at time of application	Downwind no-spray zone	
	Fixed Wing	Helicopter
Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	575 metres	350 metres
From 7 to 14 kilometres per hour	650 metres	350 metres
Application rate 2750g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	250 metres	140 metres
From 7 to 14 kilometres per hour	250 metres	170 metres
Application rate 2000g ae/ha, VERY COARSE droplet size, Aerial application		
From 3 to 7 kilometres per hour	140 metres	85 metres
From 7 to 14 kilometres per hour	150 metres	130 metres