



**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 FOR SUGARCANE BASED ON LOW APPLICATION RATE: (product groups 2, 3, 4, 5, 6, 7, 8a, 8b, 9a, 9b, 10, 11, 12, 13, 16, 14a, 14b): 3 metre release height or lower above the target canopy**

Application rate (/ha)	Spray droplet size category	Downwind mandatory no spray zone			
		Fixed wing		Helicopter	
		Aquatic	Terrestrial	Aquatic	Terrestrial
Tropical & subtropical uses: sugarcane					
Up to 1080g ae/ha	Very Coarse or larger	95 metres	90 metres	90 metres	85 metres
	Extremely Coarse or larger	70 metres	70 metres	70 metres	65 metres
Up to 1250g ae/ha	Very Coarse or larger	110 metres	100 metres	95 metres	95 metres
	Extremely Coarse or larger	80 metres	75 metres	75 metres	70 metres

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

Group 4 (300g 2,4-D + 75g picloram/L as the trisopropanolamine salt): 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
Dryland cropping: winter cereals and fallows				
Up to 1.0L (325g ae/ha)	40 metres	40 metres	40 metres	40 metres
Dryland cropping: summer cereals				
Up to 500mL + 280mL 2,4-D Amine 625 (325g ae/ha)	40 metres	40 metres	40 metres	40 metres
Tropical & subtropical uses: sugarcane				
Up to 0.7L + 1.0L 2,4-D 500g/L (710g ae/ha)	70 metres	70 metres	70 metres	65 metres
Up to 1.5L + 1.0L 2,4-D 500g/L (950g ae/ha)	85 metres	85 metres	80 metres	80 metres

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

Group 4 (300g 2,4-D + 75 g picloram/L as the trisopropanolamine salt): 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
Dryland cropping: winter cereals and fallows				
Up to 1.0L (325g ae/ha)	75 metres	70 metres	75 metres	70 metres
Dryland cropping: summer cereals				
Up to 500mL + 280mL 2,4-D Amine 625 (325g ae/ha)	75 metres	70 metres	75 metres	70 metres
Tropical & subtropical uses: sugarcane				
Up to 0.7L + 1.0L 2,4-D 500g/L (710g ae/ha)	130 metres	120 metres	110 metres	110 metres
Up to 1.5L + 1.0L 2,4-D 500g/L (950g ae/ha)	190 metres	350 metres	150 metres	220 metres

**Pasture application by air – 5 metre release height**

Application rate 4500g ae/ha, VERY COARSE droplet size, Aerial application (Group 4): 5 metre release height or lower above target canopy

Aquatic protection		
	Downwind no-spray zone	
Wind speed range at time of application	Fixed Wing	Helicopter
From 3 to 7 kilometres per hour	750 metres	475 metres
From 7 to 14 kilometres per hour	Not supported	525 metres

Terrestrial protection (2,4-D salt formulations)		
	Downwind no-spray zone	
Wind speed range at time of application	Fixed Wing	Helicopter
From 3 to 7 kilometres per hour	725 metres	450 metres
From 7 to 14 kilometres per hour	Not supported	500 metres

**Pasture application – 3 metre release height**

Application rate 4500g ae/ha, VERY COARSE droplet size, Aerial application (Group 4): 3 metre release height above target canopy

Aquatic protection		
	Downwind no-spray zone	
Wind speed range at time of application	Fixed Wing	Helicopter
From 3 to 7 kilometres per hour	475 metres	300 metres
From 7 to 14 kilometres per hour	475 metres	300 metres

Terrestrial protection (2,4-D salt formulations)		
	Downwind no-spray zone	
Wind speed range at time of application	Fixed Wing	Helicopter
From 3 to 7 kilometres per hour	450 metres	275 metres
From 7 to 14 kilometres per hour	450 metres	275 metres

**BUFFER ZONES FORESTRY USES FOR APPLICATION BY HELICOPTER AND ACCU-FLO NOZZLE, 0.020 ORIFICE OR LARGER (product groups 2, 3, 4, 5, 6, 7, 8a, 8b, 9a, 9b, 10, 11, 12, 13, 16, 14a, 14b)**

DO NOT apply by fixed wing aircraft

DO NOT apply by helicopter unless the following requirements are met:

- Accu-Flo™ nozzles with orifice size 0.020 or larger are used.
- flying speed 102km/hr (55 knots) or slower
- release heights 15 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.

Application rate (/ha)	Wind speed range at time of application	Downwind mandatory no spray zone	
		Helicopter	
		Aquatic	Terrestrial
Release heights 15 metres or lower above the target canopy			
Up to 1000g ae/ha	From 7 to 15 kilometres per hour	75 metres	75 metres
	From 3 to 7 kilometres per hour	35 metres	35 metres
Release heights 10 metres or lower above the target canopy			
Up to 1000g ae/ha	From 7 to 15 kilometres per hour	45 metres	45 metres
	From 3 to 7 kilometres per hour	15 metres	15 metres

**VERTICAL SPRAYERS**

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

- Spray is not directed above the target canopy.
- The outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site.
- For dilute water rates up to the maximum listed for each type of canopy specified, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for vertical sprayers') are observed.

**Buffer zones for vertical sprayers**

**Group 15a (22.8g 2,4-D/L as sodium salt)**

Type of target canopy and dilute water rate	Mandatory buffer zones (distances given in metres)				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
2 metres tall and shorter, maximum dilute water rate of 1000L/ha	Not required	Not required	Not required	Not required	Not required
Taller than 2 metres (not fully-foliated), maximum dilute water rate of 4000L/ha		15 metres		15 metres	
Taller than 2 metres (fully-foliated), maximum dilute water rate of 4000L/ha		10 metres		5 metres	

**Group 15b (100g 2,4-D/L as sodium salt)**

Type of target canopy and dilute water rate	Mandatory buffer zones (distances given in metres)				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
2 metres tall and shorter, maximum dilute water rate of 1000L/ha	Not required	Not required	Not required	Not required	Not required
Taller than 2 metres (not fully-foliated), maximum dilute water rate of 4000L/ha		15 metres		15 metres	
Taller than 2 metres (fully-foliated), maximum dilute water rate of 4000L/ha		10 metres		5 metres	



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