

# POISON

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

*KENSO AGCARE*

# KEN-AMINE 720

**SELECTIVE HERBICIDE**

ACTIVE CONSTITUENT: 720 g/L 2,4-D present as the DIMETHYLAMINE SALT

**GROUP I HERBICIDE**

For the control of broadleaved weeds in fallow before direct drilling or sowing of cereals and pastures; and in cereal crops, pastures, sugar cane, peanuts and non-agricultural areas as per the Directions for Use.

**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. Please read the Spray Drift Restraints.**



Kenso Corporation (M) Sdn Bhd  
Level 1, 98 Commercial Road,  
Teneriffe QLD 4005  
Phone (07) 3216 1188  
[www.kenso.com.au](http://www.kenso.com.au)

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE**

**CONTENTS: 20 Litres APVMA Approval No.: 65638/ 119471**

# KENSO AGCARE KEN-AMINE 720 SELECTIVE HERBICIDE

## STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area away from children, animals, food, feedstuffs, seed and fertilizers. DO NOT store for prolonged periods in direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

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.

### 110L Mini Bulk Returnable Container

Store the original sealed drum in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the non-return valve or the security seal. DO NOT contaminate the drum with water or any foreign matter.

After each use of the product, please ensure that the non-return valve, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase.

### Refillable containers (1000L):

Empty contents fully into application equipment. Close all valves.

## SAFETY DIRECTIONS

Poisonous if swallowed. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray, wear face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone 131126).

## SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from [www.kenso.com.au](http://www.kenso.com.au).

## CONDITIONS OF SALE

Kenso Corporation (M) Sdn. Bhd. will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Kenso Corporation (M) Sdn. Bhd. is limited to the replacement of the goods or (at the option of Kenso Corporation (M) Sdn. Bhd.) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Kenso Corporation (M) Sdn. Bhd. within thirty days of delivery.

In a Transport Emergency  
Dial **000** Police or Fire Brigade



Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: **HARMFUL IF SWALLOWED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION.** *Precautionary:* Avoid breathing dust/fume/gas/mist/vapours/spray. Wash contacted areas thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing and eye or face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see FIRST AID on this label). Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Batch No.:

Date of Manufacture:

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

**KENSO**  
*corporation*

# KEN-AMINE 720

Selective Herbicide

ACTIVE CONSTITUENT: 720 g/L 2,4-D present as the DIMETHYLAMINE SALT

**GROUP 1 HERBICIDE**

For the control of broadleaf weeds in fallow before direct drilling or sowing of cereals and pastures; and in cereal crops, pastures, sugar cane, peanuts and non-agricultural areas as per the Directions for Use.

**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. Please read the Spray Drift Restraints.**

READ THIS LEAFLET BEFORE USE

APVMA Approval No.: 65638/119471



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RESTRAINTS:

**SPRAY DRIFT 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.

**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 spay 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.**

<p style="text-align:center"><b>ADVISORY FOR BOOM SPRAYER USE IN CEREALS, FALLOW AND PASTURE 1ST OCTOBER TO 15 APRIL</b> USE IN CEREALS, FALLOW AND PASTURES DURING THE PERIOD <b>3rd OCTOBER TO 15TH APRIL</b>, IT IS ADVISED TO:- USE NOZZLES THAT PRODUCE <b>EXTREMELY COARSE (XC) TO ULTRA COARSE (UC) DROPLETS</b>. 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 &lt;3% DRIFTABLE DROPLETS.</p>
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**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 [L/ha (g ae/ha)]	Downwind mandatory no spray zone			
	Aquatic		Terrestrial	
Dryland cropping: Winter cereals and fallows				
Up to 1.1 L (750 g ae/ha)	10 metres			10 metres
Up to 1.2 L (880 g ae/ha)	15 metres			15 metres
Up to 1.5 L (1080 g ae/ha)	20 metres			20 metres
Dryland cropping: Summer cereals				
Up to 0.8 L (560 g ae/ha)	5 metres			0 metres
Up to 1.1 L (750 g ae/ha)	10 metres			10 metres
Tropical & subtropical uses: Sugarcane				
Up to 1.5 L (1080 g ae/ha)	20 metres			20 metres
Up to 3.0 L (2220 g ae/ha)	35 metres			30 metres
Tropical & subtropical uses: Peanuts				
Up to 3.2 L (2250 g ae/ha)	35 metres			30 metres
Pasture				
Up to 2.8 L (2000 g ae/ha)	30 metres			30 metres
Up to 3.8 L (2750 g ae/ha)	40 metres			35 metres
Up to 4.6 L (3300 g ae/ha)	45 metres			45 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 [L/ha (g ae/ha)]	Downwind mandatory no spray zone				
	Fixed wing		Helicopter		
	Aquatic	Terrestrial	Aquatic	Terrestrial	
Dryland cropping: Winter cereals and fallows					
Up to 1.0 L (750 g ae/ha)	75 metres	70 metres	70 metres	70 metres	70 metres
Up to 1.2 L (880 g ae/ha)	80 metres	80 metres	75 metres	75 metres	75 metres
Up to 1.5 L (1080 g ae/ha)	95 metres	90 metres	90 metres	85 metres	85 metres
Dryland cropping: Summer cereals					
Up to 0.78 L (560 g ae/ha)	60 metres	60 metres	60 metres	55 metres	55 metres
Up to 1.0 L (750 g ae/ha)	75 metres	70 metres	70 metres	70 metres	70 metres
Tropical & subtropical uses: Sugarcane					
Up to 3 L (2160 g ae/ha)	180 metres	170 metres	150 metres	140 metres	140 metres
Tropical & subtropical uses: Peanuts					
Up to 3.1 L (2220 g ae/ha)	180 metres	170 metres	150 metres	140 metres	140 metres

**RESISTANT WEEDS WARNING**

**GROUP 1 HERBICIDE**

Ken-Amine 720 Selective Herbicide (Ken-Amine 720) is a member of the Phenoxy's group of herbicides. Ken-Amine 720 has the Disruptors of plant cell growth mode of action. For weed resistance management Ken-Amine 720 is a group I herbicide. Some naturally-occurring weed biotypes resistant to Ken-Amine 720 and other disruptors of plant cell growth herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Ken-Amine 720 or other disruptors of plant cell growth herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Kenso Corporation (M) Sdn. Bhd. accepts no liability for any losses that may result from the failure of Ken-Amine 720 to control resistant weeds.

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

DO NOT spray in high winds. DO NOT spray cereals if lucerne is present. DO NOT spray crops or weeds outside the stages indicated in 'Critical Comments' as damage, loss of yield or inadequate weed control may result.

**Drift Warning:** 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. Avoid spray drift onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit tress and ornamentals.

**PROTECTION OF LIVESTOCK**

Low hazard to bees. May be applied at any time as recommended in the Directions for Use.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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

Application rate [L/ha (g ae/ha)]	Downwind mandatory no spray zone			
	Fixed wing		Helicopter	
	Aquatic	Terrestrial	Aquatic	Terrestrial
Dryland cropping: Winter cereals and fallows				
Up to 1.0 L (750 g ae/ha)	130 metres	130 metres	120 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 (1080 g ae/ha)	180 metres	170 metres	140 metres	140 metres
Dryland cropping: Summer cereals				
Up to 0.78 L (560 g ae/ha)	110 metres	110 metres	100 metres	95 metres
Up to 1.0 L (750 g ae/ha)	130 metres	130 metres	120 metres	110 metres
Tropical & subtropical uses: Sugarcane				
Up to 3 L (2160 g ae/ha)	425 metres	400 metres	250 metres	225 metres
Tropical & subtropical uses: Peanuts				
Up to 3.1 L (2220 g ae/ha)	425 metres	400 metres	250 metres	225 metres

**Pasture application by air – 5.0 m release height**

**Application rate 4.63L/ha (3330 g ae/ha), VERY COARSE droplet size, Aerial application**  
Aquatic protection

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	350 metres
	From 3 to 7 kilometres per hour	600 metres
	From 7 to 14 kilometres per hour	675 metres

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

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	350 metres
	From 3 to 7 kilometres per hour	575 metres
	From 7 to 14 kilometres per hour	650 metres

**Application rate 3.92L/ha (2750 g ae/ha), VERY COARSE droplet size, Aerial application**

Aquatic protection

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	300 metres
	From 3 to 7 kilometres per hour	500 metres
	From 7 to 14 kilometres per hour	550 metres

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

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	275 metres
	From 3 to 7 kilometres per hour	475 metres
	From 7 to 14 kilometres per hour	525 metres

**Application rate 2.78L/ha (2000 g ae/ha), VERY COARSE droplet size, Aerial application**

Aquatic protection

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	220 metres
	From 3 to 7 kilometres per hour	375 metres
	From 7 to 14 kilometres per hour	375 metres

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

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	210 metres
	From 3 to 7 kilometres per hour	350 metres
	From 7 to 14 kilometres per hour	350 metres

**Application rate 4.63L/ha (3330 g ae/ha), VERY COARSE droplet size, Aerial application**

Aquatic protection

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	375 metres
	From 3 to 7 kilometres per hour	600 metres
	From 7 to 14 kilometres per hour	675 metres

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

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	350 metres
	From 3 to 7 kilometres per hour	575 metres
	From 7 to 14 kilometres per hour	650 metres

**Application rate 3.92L/ha (2750 g ae/ha), VERY COARSE droplet size, Aerial application**

Aquatic protection

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	180 metres
	From 3 to 7 kilometres per hour	250 metres
	From 7 to 14 kilometres per hour	250 metres

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

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	140 metres
	From 3 to 7 kilometres per hour	250 metres
	From 7 to 14 kilometres per hour	250 metres

**Application rate 2.78L/ha (2000 g ae/ha), VERY COARSE droplet size, Aerial application**

Aquatic protection

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	90 metres
	From 3 to 7 kilometres per hour	160 metres
	From 7 to 14 kilometres per hour	160 metres

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

	Downwind no-spray zone	
	Fixed Wing	Helicopter
	Wind speed range at time of application	85 metres
	From 3 to 7 kilometres per hour	140 metres
	From 7 to 14 kilometres per hour	150 metres

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well ventilated area away from children, animals, food, feedstuffs, seed and fertilizers.

DO NOT store for prolonged periods in direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

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.

**110L Mini Bulk Returnable Container:**

Store the original sealed drum in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the non-return valve or the security seal. DO NOT contaminate the drum with water or any foreign matter. After each use of the product, please ensure that the non-return valve, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase.

**Refillable containers (1000L):**

Empty contents fully into application equipment. Close all valves.

**SAFETY DIRECTIONS**

Poisonous if swallowed. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray, wear face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131126).

**SAFETY DATA SHEET**

Additional information is listed in the Safety Data Sheet, which can be obtained from www.kenso.com.au.

**CONDITIONS OF SALE**

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**DIRECTIONS FOR USE:**

**1. FIELD CROPS**

Crop/Situation	Weeds Controlled	State	Rate/ha	Critical Comments	
<b>Wheat</b>	Refer Weed Table	NSW, SA only	275mL – 1.45L	Apply after the first node can be felt at the base of a tiller and before swelling of the head can be felt in a tiller (NSW, SA only)	
		Vic only	190mL – 1.2L		
		Qld only	485mL – 1.2L		
		Tas only	1.2L		
		NSW, SA only	275mL – 1.2L	Apply from tillering to boot stage (Vic only)	
		Vic only	190mL – 1.2L	Apply from mid tillering to before boot stage (Qld only)	
<b>Barley</b>		Qld only	485mL – 1.2L		
		Tas only	1.2L		
		NSW, SA only	275 mL – 1.2L	Apply at 5 leaf to fully tillered (Tas only)	
<b>Cereal Rye, Triticale</b>		Vic only	190mL – 1.2L		
		NSW, SA only	275mL – 690mL		
<b>Oats</b>		Vic only	190mL – 690mL		
		NSW, SA only	190mL – 690mL		
<b>Cereals: Wheat, Oats, Barley</b>	Cape Tulip	WA only	550mL – 1.1L	Apply from the 5 leaf stage up to jointing stage (Zadoks 15-33). Apply after the 6 leaf stage (Z.16) for Cranbrook, Jacup, Aroona and Spear Wheat and Mortlock Aats to avoid possible damage. DO NOT spray if lucerne is present. WEED STAGE: 10-15cm. Docks should be sprayed before 5 leaf stage. Cape Tulip – low rate for cornils only.	
			970mL		
			690mL		
	Indian Hedge, Mustard, London Rocket, Lupin, Rapistrum, Wild Radish			550mL	Apply when crop has 4-5 leaves and most weeds have germinated and are in 2-5 leaf stage. Crop and weeds should be dry at time of application. Some temporary yellowing of crop may occur after application. Undersown sub-clovers may be slightly retarded. DO NOT apply to undersown medics.
				170mL plus 500mL Flowable Diuron	
Wild Turnip					
<b>Fallow, Stubble Spray prior to Direct Drilling or Sowing</b> <b>a) Winter Cereals</b> <b>b) Winter Cereals and Maize, Sweet corn, Peanuts</b>	Refer Weed Table	Vic only	195mL – 1.2L	Observe plant back periods given in the table on this leaflet. Can be mixed with Glean*, Gramoxone* or Spray Seed* where grasses are present.	
<b>Maize, Sweet corn</b>	Refer Weed Table	NSW, SA only	485mL – 970mL	Apply when crop is 10-20cm high and secondary roots are developing for an over the top spray. When crop is between 20cm high and just before tasselling, spray with dropped nozzles to avoid chemical being sprayed into the whorl and on upper leaves.	
			Qld only	485mL – 760mL	Apply when crop is 10-30cm high and secondary roots have developed. Use drop nozzles and direct the spray when crop exceeds 30cm in height and before tasselling.
			Tas only	1.2L	Apply when crop is 15-30cm high. Do not spray if crop is showing signs of stress. Some leaf twisting may occur following application - crop recovers quickly.
			NSW, SA, Vic only	485mL – 970mL	Apply preferably when crop is at 3-6 fully expanded leaf stage but can be sprayed from 2-8 leaf stage. From 6 leaf stage onwards to within 2 weeks of flowering, crop can be sprayed with dropped nozzles to avoid chemical being sprayed into the whorl and on upper leaves.
			Qld only (except central Qld)	485mL – 760mL	Apply

2. PASTURES, NON-AGRICULTURAL, RIGHTS OF WAY, INDUSTRIAL, LAWNS

Situation & Crop	Weeds	State	Rate/ha	Critical Comments	
<b>Pastures and Non-Agricultural</b>	Refer Weed Table	NSW, Qld, SA, Tas only	485mL – 1.45L	Pasture legumes including lucerne, clovers and medics may be damaged unless well protected by grasses. Spot spraying is preferred.	
	Amsinckia, Docks, Bindweed, Caltrop, Flatweed, Spear Thistle, Capeweed, Doublegee, Saffron Thistle, Mustard, Wild Radish, Wild Turnip, Annual Thistles, Paterson's Curse	WA only	970mL	For pastures not containing legumes. Only seedling Docks, Spear Thistle and Saffron Thistle will be controlled.	
	Afghan Melons	WA only	1.4L plus 1% crop oil	Spray when plants are actively growing preferably before flowering or vining.	
	Paddy Melons		690mL – 970mL		
	Prickly Saltwort (Roly Poly)		1.4L	Spray when plants are small.	
	Stinkwort		1.4L – 2.8L plus surfactant	Best results are obtained when plants are small. Use high rate on larger plants.	
	Dove Weed		2.8L	Spray after good emergence of seedlings.	
<b>Conservation Tillage – Direct Drilling, Surface Sowing or Fallow Maintenance</b>	Charlock, Mustards, Shepherd's Purse, Saffron, Slender, Spear and Variegated Thistles, Turnip Weed, Wild Radish, Wild Turnip	All States	485mL – 1.4L	Apply to actively growing young plants. Before sowing. Observe plant back periods given in the table on this leaflet.	
	Clover, Sorrel		970mL plus 700mL – 1L of Dicamba (200g/L)	Apply to actively growing plants in Autumn. Do not sow pasture seed for at least 30 days after application.	
<b>Pastures, Rights of Way and Industrial</b>	Boxthorn, Boneseed, Hawthorn	Vic, SA only	69mL/10L water undiluted	Spot Spraying. For Boneseed only, thoroughly wet plants or seedlings. Apply as an undiluted spray to freshly cut stumps.	
	Groundsel	NSW, Qld, SA only	830mL/15L water	MISTING: Lightly wet plants.	
			275mL/100L water	HIGH VOLUME: Thoroughly wet plants.	
			200mL/15L water	CUT STUMP: Swab the cut stump immediately. Apply by a pouring can or Knapsack spray.	
	Lantana	NSW, Qld, SA only	2.5 – 3.8L/ha	AERIAL APPLICATION: Spray when Groundsel is actively growing.	
			275mL/100L water	Use a coarse spray with sufficient pressure to penetrate canopy and wet stems as well as foliage. Spray at the end of a wet summer (March to May). Defoliation should occur but re-spraying of new growth will be necessary in following Autumn. Broadcast grass seed and keep stock off following Summer to allow the pasture to establish. Damage may result to pasture legumes.	
	Mother of Millions	NSW only	345mL/100L water	Hand gun and Knapsack only. A thorough coverage of leaves and plantlets is necessary. Use Spraymate Chemwet 1000* at the rate of 1mL of surfactant per 1L of mixture.	
	Noogoora Burr, Weir Vine (Ipomea)	Qld only	140mL/100L water	In all cases apply to young, actively growing weeds, ensuring thorough coverage. * Spray rosette stage. * Repeat spraying necessary	
	Annual and Perennial Pigweed, Arthichoke Thistle, Bathurst Burr, Billygoat Weed, Blue Snake Weed, Burr Medic, Clockweed*, Fleabanes, Galvanised Burr, Hemlock, Hoary Cress*, Kyalinga Weed (Whisker Grass), Knobweed, Milky Cotton Bushes, Parthenium Weed, Paterson's Curse, Saffron Thistle, Star Burr, Thornapple, Variegated Thistle*			275mL/100L water	
				140mL/10L water	Apply to freshly cut stump.
140mL/10L water					
<b>Lawns</b>	Refer Weed Table	Qld only	1 – 3mL /1L water	Wet foliage thoroughly.	
		WA only	35mL/100mL water		
<b>Pastures – Spray-Graze Techniques</b>				*PRECAUTION. An increased quantity of poisonous plants may be eaten by stock using Spray-Graze eg. Caltrop, Capeweed, Paterson's Curse, Variegated Thistle and deaths could result from causes such as nitrate poisoning. With Paterson's Curse, preferably graze stock soon destined for slaughter and avoid extended periods of grazing. Avoid grazing with young or breeding stock. Do not graze horses or pigs on Paterson's Curse.	
	Amsinckia, Thistles, Capeweed, Doublegee, Mustard, Paterson's Curse, Wild Turnip, Wild Radish, Docks, Geranium, Erodium	SA only	485mL	Apply from 6 weeks after opening rains in Autumn until the end of August. Seven days after spraying stock paddock at 4-5 times normal rate, preferably with sheep. Maintain this level of grazing for 6 weeks or until pasture shows signs of over grazing. Then return to normal stocking levels. Use high stocking rates in following spring to prevent weeds from flowering. Repeat treatments may be required for 2-3 years for complete control.	
	Annual Thistles, Capeweed, Doublegee, Mustards, Paterson's Curse, Turnip, Saffron Thistle, Spear Thistle	Tas, Vic only			
	Amsinckia, Docks (Seedling only), Capeweed, Doublegee, Mustard, Wild Radish, Wild Turnip, Paterson's Curse, Annual Thistles	WA only	520mL		
	Spear Thistle, Saffron Thistle		1L	Apply to Saffron Thistle at the end of September when plants are running up to flower. Sub-clovers may be damaged at this rate and use is not recommended for all medic pastures.	
	Melons		1.4L + 1% oil	Heavy stocking on young plants sprayed with 1L/ha provides effective control.	
	Docks	Vic only	970mL	Apply in September only and follow other recommendations above.	
	Caltrop, Capeweed, Charlock, Mustards, Paterson's Curse, Shepherd's Purse, Saffron, Slender, Spear or Variegated Thistle, Turnip Weed, Wild Radish, Wild Turnip	NSW only	240mL – 970mL	Spray actively growing 6-8 week old weeds. Introduce stock 7-10 days after spraying, preferably sheep (cattle are less effective). Stocking rate should be at least 5 times heavier than normal until weeds have been reduced, but before survival of desirable pasture species is threatened. Lucerne and Medics may be damaged and should be grazed short before spraying. Other legumes may be affected.	

3. SPOT SPRAYING

Situation & Crop	Weeds	State	Mixing Rates / Comments
<b>High Volume Spraying</b>	Refer to Weed Table	All States	Add 1/10th of rate on weed table to 150L of water. Each 150L of mix will cover 1000m <sup>2</sup> (1/10th ha). eg. If rate in weed table is 1.4L use 140mL/150L water
<b>Knapsack Application</b>	Refer to Weed Table	All States	Add 1/100th of rate on weed table to 10L of water. Each 10L of mix will cover 100m <sup>2</sup> (1/100th ha). eg. If rate in weed table is 1.4L use 14mL/10L water.

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

IN TASMANIA, THIS PRODUCT MAY ONLY BE USED FROM 15 APRIL TO 15 SEPTEMBER UNLESS OTHERWISE PERMITTED BY THE REGISTRAR OF CHEMICAL PRODUCTS.

WITHHOLDING PERIOD:  
PASTURE, CEREAL CROPS – DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

CROP HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

WEED TABLE:NOTE: Where weeds are to be sprayed in a CROP or PASTURE use only the rates given for the particular crop or situation indicated under the Directions for Use table.

In most cases this will give control, however some hard to kill weeds or those in advanced stages of growth may only be suppressed. The rates listed in the Weed Table below are for use where weeds only are present and no crop or pasture is involved. Use at these rates in a crop or pasture other than for spot spraying may cause damage.

This product should only be used in those states where a rate or range of rates is indicated for the particular weeds listed.

Weeds Controlled	Application Rate per Hectare							Critical Comments
	Crop							
	Vic	NSW	SA	Qld	Tas	WA	Pasture NSW, SA, Qld, Tas only	
<b>Amaranthus spp.</b>	-	485mL – 970mL	-	760mL	-	-	-	Spray young plants
<b>Apple of Peru</b>	-	485mL – 970mL	-	760mL	-	-	-	Spray young plants. Susceptible when young.
<b>Bathurst Burr</b>	-	690mL – 970mL	-	760mL	-	-	690mL – 970mL not SA	Spray seedling only.
<b>Blackberry Nightshade</b>	-	485mL – 970mL	-	760mL	-	-	-	
<b>California Burr</b>	-	690mL – 970mL	-	760mL	-	-	690mL – 970mL not SA	Spray seedling only.
<b>Cape Tulip</b>	-	-	-	-	-	550mL – 1.1L	-	Low rate for cornils only*
<b>Capeweed</b>	1.2L	-	1.45L	-	1.2L	-	1.5 – 2.45L	Spray seedlings to rosette stage.
<b>Caltrop</b>	-	690mL – 1.45L	-	760mL	-	-	-	Moderately susceptible.
<b>Charlock</b>	485mL – 690mL	485mL – 970mL	485mL	-	1.2L	-	690mL – 970mL	Spray at rosette stage.
<b>Clover</b>	-	1L	-	-	-	-	-	
<b>Common Ice Plant</b>	-	-	970mL	-	-	-	-	
<b>Docks</b>	1.2L	-	1.2L	1.2L	1.2L	970mL	2.8L SA only	Spray at multiple leaf stage. – effective only on seedlings.
<b>Fat Hen</b>	-	485mL – 1.45L	-	765mL	1.2L	-	-	Spray pre-flowering.
<b>Fumitory - red</b>	-	-	1.45L	-	-	-	-	
<b>Fumitory - white</b>	690mL	-	485mL	-	-	-	-	Spray at multiple leaf stage.
<b>Hexham Scent or Melilotus</b>	1.2L	-	970mL	1.2L	-	-	970mL – 1.45L	Spray multiple leaf stage before seeding.
<b>Hoary Cress</b>	760mL – 1.2L	970mL – 1.45L	1.2L	1.2L	-	-	1.25L – 1.45L	Spray rosettes and pre-flowering.
<b>Hogweed / Wireweed</b>	-	-	-	1.2L	-	-	-	Spray at multiple leaf stage (Vic). Spray at seedling and young plant stage (Qld).
<b>Horehound</b>	-	-	1.2L	-	-	-	1.95L – 2.8L SA only	Spray seedlings.
<b>Khaki Weed</b>	-	-	-	-	-	-	970mL – 1.95L not SA	Spray seedling only.
<b>Lincoln Weed</b>	-	-	1.45L	-	-	-	-	Spray early rosettes.
<b>London Rocket</b>	-	-	-	-	-	690mL	-	
<b>Lupins</b>	-	690mL – 1.45L	-	-	-	-	-	
<b>Mexican Poppy</b>	-	-	-	1.2L	-	-	-	Spray seedlings – plants become more resistant with age.
<b>Mintweed</b>	-	970mL	-	760mL	-	-	-	Spray seedlings – resistant in later stages.
<b>Mustards</b>	190mL – 485mL	485mL – 970mL	485mL – 1.2L	760mL	-	690mL	485mL – 970mL	Spray at 2-4 leaf up to rosette stage.
<b>New Zealand Spinach</b>	-	970mL – 1.45L	-	-	-	-	-	
<b>Noogoora Burr</b>	-	690mL – 970mL	-	760mL	-	-	690mL – 970mL not SA	Spray seedlings only.
<b>Paterson's Curse</b>	-	970mL 1.45L	-	1.2L	-	1.1L	1.45L – 1.95L	Spray rosettes or before plants have 10 leaves. Later stages harder to kill.
<b>Potato Weed</b>	-	485mL – 970mL	-	760mL	-	-	-	
<b>Rapeseed</b>	-	690mL – 1.45L	-	-	-	-	-	
<b>Rough Poppy</b>	-	970mL	-	-	-	-	-	
<b>Safflower</b>	-	485mL – 970L	-	-	-	-	-	
<b>Shepherds Purse</b>	-	970mL – 1.45L	-	-	1.2L	-	690mL – 970mL	Spray young rosettes.
<b>Skeleton Weed</b>	1.2L	970mL – 1.45L	1.2L	-	-	-	1.25L – 1.95L	Spray rosettes before aerial growth commences.
<b>Sorrel</b>	1.2L	1.45L	1.2L	-	-	-	-	Only moderately susceptible.
<b>Speedwell – Ivy leaf</b>	-	-	-	970mL	-	-	-	
<b>Spiny Emex</b>	-	-	-	1.2L	-	-	-	Only young plants are susceptible.
<b>Stinkwort</b>	-	690mL – 1.2L	-	-	-	-	-	
<b>Storkbill / Erodium</b>	-	-	-	-	1.2L	-	1.65L	Spray seedlings to young rosettes.
<b>Sunflower (seedlings)</b>	1.2L	485mL – 1.2L	-	760mL	-	-	-	

Weeds Controlled	Application Rate per Hectare							Critical Comments
	Crop						Pasture	
	Vic	NSW	SA	Qld	Tas	WA	NSW, SA, Qld, Tas only	
<b>Thistles:</b>	-	-	-	-	2.4L	-	2.8L – 3.25L	Repeated applications may be necessary. (NSW, Tas only)
<b>Californian</b>	-	-	-	-	-	-	-	
<b>- Saffron</b>	970mL	485mL – 1.45L	1.2L	1.2L	830mL	970mL	970mL – 1.45L	Low rate only sufficient to control weeds in crops at rosette stage when sprayed early. Suppression only.
<b>- Slender / Shore</b>	-	690mL – 1.45L	-	-	1.2L	-	970mL	
<b>- Soldier</b>	1.2L	-	-	-	-	-	970mL – 1.4L not NSW, Tas	Spray young rosette.
<b>- Spear</b>	485mL	-	-	-	1.2L	-	970mL – 1.4L	Spray young rosettes.
<b>- Star</b>	-	-	-	-	-	-	1.4L – 2.8L SA only	Use higher rate as flower stalk appears.
<b>- Variegated</b>	-	485mL – 1.45L	-	760mL	1.2L	-	970mL – 1.45L	Spray at rosette stage.
<b>Thornapple</b>	-	690mL – 970mL	-	-	-	-	1.4L – 2.1L not SA	Spray seedlings only.
<b>Turnip Weed / Rapistrum</b>	-	485mL – 970mL	-	485mL	-	690mL	485mL – 970mL	
<b>Wards Weed</b>	-	-	970mL	-	-	-	-	
<b>Wild Cabbage</b>	1.2L	-	-	-	-	-	-	Spray multiple leaves.
<b>Wild Poppy</b>	485mL	-	-	-	-	-	970mL – 1.45L	Spray rosettes.
<b>Wild Radish</b>	1.2L	1.2L – 1.45L	1.2L	760mL	1.2L	690mL	690mL – 970mL	Spray up to young rosette stage.
<b>Wild Turnip</b>	190mL – 485mL	485mL – 970mL	275mL	-	1.2L	550mL	485mL – 970mL	Spray 2-4 leaf up to rosette stage.
<b>Vetches / Tares</b>	1.2L	-	970mL	-	-	-	-	Spray at multiple leaf stage.

Plant back days for Ken-Amine 720

Crop	Rates		
	Up to 480mL/ha	480mL – 970mL/ha	970mL – 1.45L/ha
Balansa Clover	7	7	10
Barley %	7	1	3
Chickpeas #	7	14	21
Cotton	10	14	21
Faba Beans	7	7	10
Field Peas	7	14	14
Lentils	7	7	10
Linseed	7	7	14
Lucerne	7	7	10
Lupins +	7	14	21
Medics	7	7	10
Narbon Beans	7	7	10
Navybean	10	10	14
Oats	3	3	7
Perennial Ryegrass	7	7	10
Persian Clover	7	7	10
Phalaris	7	7	10
Canola / Rapeseed #	14	21	28
Rice	7	7	14
Safflower #	7	14	21
Sorghum @	3	7	10
Soybean	14	14	21
Sub-clover	7	7	10
Sunflower @	7	10	14
Triticale %	1	3	7
Vetch	7	7	10
Wheat %	1	3	7
White clover	7	7	10

IMPORTANT: WHEN APPLIED TO DRY SOILS AT LEAST 15mm (1/2 inch) OF RAIN MUST FALL PRIOR TO THE COMMENCEMENT OF THE PLANT BACK PERIOD.

NOTES:  
% In Queensland, no rainfall is required to fall prior to commencement of Plant Back Period for Wheat, Barley and Triticale.  
# In Queensland, planting of Canola / Rapeseed, Chickpeas and Safflower must be delayed for at least 14 days following rainfall of at least 15mm.  
@ In central Queensland, when using 2.2L/ha or less of Ken-Amine 720, the Plant Back Period for Sorghum and sunflower is 1 day irrespective of rainfall.  
+ In WA the Plant Back Period for Lupins at all rates is 28 days.

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

APPLICATION INFORMATION

BOOM SPRAYING - Use 30-120L/ha of water.  
AERIAL SPRAYING - Use 10-90L/ha of water.

EQUIPMENT MAINTENANCE AND USAGE

Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot soapy water or 1% solution of ammonia, followed by several clear water rinses.

COMPATIBILITY

This product may be tank mixed with Atrazine, Dicamba (200g/L), Flowable Diuron, Glean\*, Gramoxone\*, Propon\*, Siega\*, Sprayseed\* and Tordon 50-D\*.

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



# KEN-AMINE 720

## Selective Herbicide

**ACTIVE CONSTITUENT: 720 g/L 2,4-D present as the DIMETHYLAMINE SALT**

**GROUP I HERBICIDE**

**GENERAL INSTRUCTIONS FOR ALL 2,4-D PRODUCTS BEARING A SUSPENDED OR CANCELLED LABEL FROM 1<sup>st</sup> OCTOBER 2020 ONWARDS**



**Kenso Corporation (M) Sdn. Bhd.**  
Level 1, 98 Commercial Road,  
Teneriffe QLD 4005  
Phone (07) 3216 1188

**DIRECTIONS FOR USE:** 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.

**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.

**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 October to 15 April**  
Use in cereals, fallow and pastures during the period 3 October to 15 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
Dryland cropping: winter cereals and fallows		
Up to 1.1 L (750 g ae/ha)	10 metres	10 metres
Up to 1.2 L (880 g ae/ha)	15 metres	15 metres
Up to 1.5 L (1080 g ae/ha)	20 metres	20 metres
Dryland cropping: summer cereals		
Up to 0.8 L (560 g ae/ha)	5 metres	0 metres
Tropical & subtropical uses: Sugarcane		
Up to 1.5 L (1080 g ae/ha)	20 metres	20 metres
Up to 3.0 L (2220 g ae/ha)	35 metres	30 metres
Tropical & subtropical uses: Peanuts		
Up to 3.2 L (2250 g ae/ha)	35 metres	30 metres
Pasture		
Up to 2.8 L (2000 g ae/ha)	30 metres	30 metres
Up to 3.8 L (2750 g ae/ha)	40 metres	35 metres
Up to 4.6 L (3300 g ae/ha)	45 metres	45 metres

**DIRECTIONS FOR USE FOR AERIAL APPLICATION**  
To enable aerial application of 2,4-D products the following instructions are provided:  
**1. Nozzle selection to achieve mandatory VERY COARSE or Larger Droplet Size Categories for aerial application.**  
**Important information**  
These instructions inform users of 2,4-D products how to lawfully comply with the requirement of a VERY COARSE or larger spray droplet size category for aerial spray application.  
Complying with the requirement to use a specific droplet size category means using the correct nozzle that will deliver that droplet size category under the spray operation conditions being used. Only the following specific methods can be used for choosing the correct nozzle. Use one of the methods specified in these instructions to select a correct nozzle to deliver a VERY COARSE or larger droplet size category for aerial application.

**Instructions for Fixed-Wing Aerial Application – for VERY COARSE droplet size or larger categories**  
Instructions in this section apply to fixed-wing aerial application of products for which a label or a permit Spray Drift Restraint requires VERY COARSE spray droplet category. Nozzle choices must be made using Option 1 or 2 below.

**Mandatory Instructions for Fixed-Wing Aerial Applications**

<b>Option 1</b> For up to a maximum aircraft speed of 120 knots and a VERY COARSE droplet size category, USE ONLY narrow angle flat fan nozzles with spray angle less than or equal to 25, orifice size 20 or greater and oriented straight back to the flight direction. USE ONLY a spray system pressure greater than or equal to 4 bar.
<b>Option 2</b> USE ONLY nozzles rated by the APVMA Approved AAAA Nozzle Calculator or the USDA-ARS Aerial Spray Nozzle Models as VERY COARSE to comply with a product label's requirement for a VERY COARSE spray droplet size category. When using the AAAA Nozzle Calculator or the USDA-ARS Aerial Spray Nozzle Models, aerial applicators must also follow the additional instructions below in (a), (b) and (c). (a) Aerial applicators must only use the droplet size category given in the nozzle calculator at the D <sub>(V0.5)</sub> position to identify a nozzle to comply with the required spray droplet category. The categories shown at the D <sub>(V0.5)</sub> and the D <sub>(V0.50)</sub> positions in the calculator must not be used for making a nozzle selection. (b) Aerial applicators must not apply at airspeeds greater than that speed used to select the nozzle. A nozzle identified as VERY COARSE can also be used at slower airspeeds provided that the nozzle angle and system pressure are kept the same. (c) When a particular pesticide product is chosen within the nozzle calculator as one of the conditions set to select a nozzle, then aerial applicators must use that specific pesticide product with that nozzle. <b>Note – contact the Aerial Application Association of Australia (aaaa.org.au) for information on how to obtain access to the APVMA Approved AAAA Nozzle Calculator; the USDA-ARS Aerial Spray Nozzle Models can be downloaded from their website (ars.usda.gov/plains-area/college-station-tx/southern-plains-agricultural-research-center/aerial-application-technology-research/docs/a-models).</b>

**Instructions for Helicopter Aerial Application – for VERY COARSE droplet size or larger categories**  
Instructions in this section apply to helicopter application of products where a label or a permit Spray Drift Restraint requires VERY COARSE spray droplet category. Nozzle choices must be made using Option 1 or 2 below.

**Mandatory Instructions for Helicopter Aerial Applications**

<b>Option 1</b> For helicopter applications requiring a VERY COARSE spray droplet size category, USE ONLY nozzles selected with the methods previously specified for fixed-wing aircraft in Section 1.
<b>Option 2</b> When using Accu-Flo nozzles (Bishop Equipment Mfg Inc), USE ONLY nozzles rated according to the manufacturer's instructions to select the correct nozzle to apply a VERY COARSE or an EXTREMELY COARSE droplet size category to satisfy the label requirement for one of those specific droplet size categories.

**Examples of nozzles and settings that can achieve VERY COARSE or Larger Droplet Size Categories using Section 1, Option 2 include;**

For flying speeds up to 120 knots (Fixed wing aircraft):						
Nozzle model	Fan Angle (deg)	Deflector	Orifice Size	Orientation to airstream (deg)	Pressure (psi)	Category
CP11TT straight stream	-	--	10	0	40 or higher	Very Coarse
			15		50 or higher	
			20		60 or higher	
CP09	-	0	0.078	0	70 or higher	
			0.125		90 or higher	

For flying speeds up to 100 knots (Fixed wing aircraft and Helicopters):						
Nozzle model	Fan Angle (deg)	Deflector	Orifice Size	Orientation to airstream	Pressure (psi)	Category
CP09	-	0	0.078 0.125	0	30 or higher 35 or higher	Very Coarse
CP11TT straight stream	-		10 or larger	0	40 or higher	Extremely Coarse

For flying speeds up to 60 knots (Helicopters):						
Nozzle model	Fan Angle (deg)	Deflector	Orifice Size	Orientation to airstream	Pressure (psi)	Category
CP09	-	30	0.078 0.125	0	30 or higher 30 or higher	Very Coarse Extremely Coarse
CP03	0		0.062 or larger	0	30	Extremely Coarse
STANDARD Flat Fan	40	-	6 or larger	0	30 or higher	Very Coarse
STANDARD Flat Fan	40	-	10 or larger	0	30 or higher	Extremely Coarse
CP11TT FF40	40		6 or larger	0	30 or higher	Very Coarse

### 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: 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 1080 g 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 1250 g 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**

Application rate (/ha)	Downwind mandatory no spray zone			
	Fixed wing		Helicopter	
	Aquatic	Terrestrial	Aquatic	Terrestrial
Dryland cropping: winter cereals and fallows				
Up to 1.0 L (750 g ae/ha)	75 metres	70 metres	70 metres	70 metres
Up to 1.2 L (880 g ae/ha)	80 metres	80 metres	75 metres	75 metres
Up to 1.5 L (1080 g ae/ha)	95 metres	90 metres	90 metres	85 metres
Dryland cropping: summer cereals				
Up to 0.78 L (560 g ae/ha)	60 metres	60 metres	60 metres	55 metres
Tropical & subtropical uses: Sugarcane				
Up to 3 L (2160 g ae/ha)	180 metres	170 metres	150 metres	140 metres
Tropical & subtropical uses: Peanuts				
Up to 3.1 L (2220 g ae/ha)	180 metres	170 metres	150 metres	140 metres

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

**NOTE:- some rates ARE NOT SUPPORTED for Fixed Wing aircraft and MUST NOT be applied by fixed wing aircraft**

Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m 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	600 metres	350 metres
From 7 to 14 kilometres per hour	675 metres	375 metres

Application rate 2750 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m 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	500 metres	300 metres
From 7 to 14 kilometres per hour	550 metres	300 metres

Application rate 2000 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m 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	375 metres	190 metres
From 7 to 14 kilometres per hour	375 metres	220 metres

**Pasture application by air – 3 m release height**

**NOTE:- some rates ARE NOT SUPPORTED for Fixed Wing aircraft and MUST NOT be applied by fixed wing aircraft**

Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m 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	600 metres	350 metres
From 7 to 14 kilometres per hour	675 metres	375 metres

Application rate 2750 g ae/ha, VERY COARSE droplet size, Aerial application: 3 m 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	250 metres	150 metres
From 7 to 14 kilometres per hour	250 metres	180 metres

Application rate 2000 g ae/ha, VERY COARSE droplet size, Aerial application: 3 m 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	160 metres	90 metres
From 7 to 14 kilometres per hour	160 metres	140 metres

**BUFFER ZONES FORESTRY USES FOR APPLICATION BY HELICOPTER AND ACCU-FLO NOZZLE, 0.020 ORIFICE OR LARGER**

**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 102 km/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 1000 g 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 1000 g ae/ha	From 7 to 15 kilometres per hour	45 metres	45 metres
	From 3 to 7 kilometres per hour	15 metres	15 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
Dryland cropping: winter cereals and fallows				
Up to 1.0 L (750 g ae/ha)	130 metres	130 metres	120 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 (1080 g ae/ha)	180 metres	170 metres	140 metres	140 metres
Dryland cropping: summer cereals				
Up to 0.78 L (560 g ae/ha)	110 metres	110 metres	100 metres	95 metres
Tropical & subtropical uses: Sugarcane				
Up to 3 L (2220 g ae/ha)	425 metres	400 metres	250 metres	225 metres
Tropical & subtropical uses: Peanuts				
Up to 3.1 L (2220 g ae/ha)	425 metres	400 metres	250 metres	225 metres

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

**NOTE:- some rates ARE NOT SUPPORTED for Fixed Wing aircraft and MUST NOT be applied by fixed wing aircraft**

Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m release height or lower above target canopy  
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	575 metres	350 metres
From 7 to 14 kilometres per hour	650 metres	350 metres

Application rate 2750 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m release height or lower above target canopy  
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	475 metres	275 metres
From 7 to 14 kilometres per hour	525 metres	300 metres

Application rate 2000 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m release height or lower above target canopy  
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	350 metres	180 metres
From 7 to 14 kilometres per hour	350 metres	210 metres

**Pasture application by air – 3 m release height**

**NOTE:- some rates ARE NOT SUPPORTED for Fixed Wing aircraft and MUST NOT be applied by fixed wing aircraft**

Application rate 3330 g ae/ha, VERY COARSE droplet size, Aerial application: 5 m release height or lower above target canopy  
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	575 metres	350 metres
From 7 to 14 kilometres per hour	650 metres	350 metres

Application rate 2750 g ae/ha, VERY COARSE droplet size, Aerial application: 3 m release height or lower above target canopy  
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	250 metres	140 metres
From 7 to 14 kilometres per hour	250 metres	170 metres

Application rate 2000 g ae/ha, VERY COARSE droplet size, Aerial application: 3 m release height or lower above target canopy  
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	140 metres	85 metres
From 7 to 14 kilometres per hour	150 metres	130 metres