

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

**Apparent**



**Hardball Low Odour 700**

**DUAL SALT HERBICIDE**

ACTIVE CONSTITUENT: 700 g/L 2,4-D present as  
DIMETHYLAMINE & DIETHANOLAMINE SALTS

**GROUP I HERBICIDE**

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

## Additional instructions for use of this product under Permit 87174:

This leaflet is to be read in conjunction with the current leaflet containing the Directions for Use table.

As an outcome of the 2018 2,4-D Environmental Assessment report, several recommendations are made to ensure that 2,4-D products continue to be used in a manner that is safe for the animals, plants and the environment.

The following instructions are conditions of use imposed by the APVMA under s 41 (2) of the Agricultural and Veterinary Chemicals Code in the schedule to the Agricultural and Veterinary Chemicals Code Act 1994 (Cth) (Code).

In the event of any inconsistency between the instructions appearing on the current approved label and the instructions container in this leaflet, the instructions of this leaflet prevail.

The instructions in this label DO NOT permit the use of this product in any situation, time or state or territory where the instructions on the current leaflet do not permit this use.

**EXAMPLE 1:** If the current label for the product did not contain instructions for use on cereal crops, these instructions (which contain buffer zones relating to the use of products on cereal crops) DO NOT authorise the use of the product on cereal crops.

**EXAMPLE 2:** If the current label contained a condition stating that "this product may only be used from 15 April to 16 September unless otherwise permitted by a state or territory authority", these instructions DO NOT alter that prohibition.

**EXAMPLE 3:** If the current label contained a condition which limited the use of the product to certain states or territories, these instructions DO NOT authorise the use.

Additional instructions for use of this product under Permit 87174:

### **DIRECTIONS FOR USE**

#### **RESTRAINTS:**

AVOID spraying if rain is likely within 6 hours or if strong winds prevail.

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

**DO NOT** use when breeze is blowing towards nearby susceptible plants.

**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 1ST OCTOBER TO 15 APRIL**

- USE IN CEREALS, FALLOW AND PASTURES DURING THE PERIOD 3rd OCTOBER TO 15TH 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.

**GENERAL INSTRUCTIONS**

**APPLICATION INFORMATION**

**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 1.0 L	10 metres	10 metres
Up to 1.2 L	10 metres	10 metres
Up to 1.5 L	20 metres	20 metres
Dryland cropping: summer cereals		
Up to 1.0	10 metres	10 metres
Tropical & subtropical uses: Sugarcane		
Up to 1.5 L	20 metres	20 metres
Up to 3.1 L	30 metres	30 metres
Pasture		
Up to 2.8 L	30 metres	30 metres
Up to 3.8 L	35 metres	35 metres
Up to 4.6 L	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
Dryland cropping: winter cereals and fallows				
Up to 1.0 L	70 metres	70 metres	65 metres	65 metres
Up to 1.2 L	80 metres	80 metres	75 metres	75 metres
Up to 1.5 L	95 metres	90 metres	85 metres	85 metres
Dryland cropping: summer cereals				
Up to 1.0 L	70 metres	70 metres	65 metres	65 metres
Tropical & subtropical uses: Sugarcane				
Up to 3.1 L	170 metres	160 metres	150 metres	140 metres
Tropical & subtropical uses: Peanuts				
Up to 3.2 L	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
Dryland cropping: winter cereals and fallows				
Up to 1.0 L	130 metres	120 metres	110 metres	110 metres
Up to 1.2 L	150 metres	150 metres	130 metres	120 metres
Up to 1.5 L	180 metres	170 metres	140 metres	140 metres
Dryland cropping: summer cereals				
Up to 1.0 L	130 metres	120 metres	110 metres	110 metres
Tropical & subtropical uses: Sugarcane				
Up to 3.1 L	400 metres	375 metres	250 metres	220 metres
Tropical & subtropical uses: Peanuts				
Up to 3.2 L	425 metres	400 metres	250 metres	250 metres

**CONDITIONS OF SALE**

Apparent Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Apparent Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Apparent Pty Ltd has any authority to add to or alter these conditions.