



## 2,4-D: New labelling for sugarcane

NEW 2,4-D LABELS CAME INTO EFFECT IN OCTOBER THIS YEAR AS A RESULT OF THE 2018 2,4-D ENVIRONMENTAL ASSESSMENT.

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### The new mandatory instructions for 2,4-D include downwind no spray zones for aquatic and terrestrial areas and use of nozzles that produce very coarse droplets.

There are also advised recommendations when used in fallow from 1 October to 15 April.

## INSTRUCTIONS FOR ALL 2,4-D PRODUCTS RELEVANT TO SUGARCANE

### Mandatory requirements

#### Conditions and surroundings:

**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.

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

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

**Apply minimum distance for** downwind mandatory no spray buffer zone as required.

### SPRAY EQUIPMENT SET UP FOR BOOM SPRAY

**DO NOT** apply with spray droplets smaller than VERY COARSE spray droplets for standard nozzles.

**Boom heights** should be a minimum of 0.5 of a metre above the target canopy (weeds or crop canopy).

*A lack of suitable weather conditions for spraying over extended periods is not an excuse for spraying in unsuitable conditions.*

### DOWNWIND MANDATORY NO SPRAY ZONES

Downwind spray windows are specific to each 2,4-D product group, depending on active ingredient concentration and the formulation.

For sugarcane it is most likely you will be using products with the following concentrations and formulations (check your label to confirm):

#### Boom spray mandatory downwind buffer zones:

CONCENTRATION AND FORMULATION	TERRESTRIAL BUFFER & AQUATIC BUFFER
625g/L concentration as dimethylamine/diethanolamine salts UP TO 1.8L/ha	20m
700g/L g/L concentration as dimethylamine and monomethylamine salts UP TO 1.5L/ha	20m
720g/L 2,4-D concentration as dimethylamine salt. UP TO 3L/ha UP TO 1.5L/ha	20m
680g/L concentration as 2-ethylhexyl ester UP TO 2.4L/ha	30m

**For higher rates the mandatory buffer zone extends to 30 metres.**

### AERIAL APPLICATION INSTRUCTIONS

#### Follow conditions and surroundings instructions listed above and:

**DO NOT** apply with spray droplets smaller than VERY COARSE spray droplets for standard nozzles.

**Release heights** should be a minimum of 5 metres above the target canopy (weeds or crop canopy).

**Apply minimum distance for** downwind mandatory no spray window as required. For sugarcane it is most likely you will be using products with the following concentrations and formulations (check your label to confirm):

#### Aerial application mandatory downwind buffer zones

Concentration and formulation	FIXED WING		HELICOPTER	
	Terrestrial	Aquatic	Terrestrial	Aquatic
625g/L concentration as dimethylamine/diethanolamine salts UP TO 3.5L/ha	180m	170m	150m	140m
700g/L g/L concentration as dimethylamine and monomethylamine salts UP TO 3.1L/ha	180m	170m	150m	140m
720g/L 2,4-D concentration as dimethylamine salt. UP TO 3L/ha	180m	170m	150m	140m
680g/L concentration as 2-ethylhexyl ester – UP TO 1.15L/ha	75m	110m	70m	100m
680g/L concentration as 2-ethylhexyl ester – UP TO 2.4L/ha	130m	250m	120m	180m

#### DEFINITIONS:

*Terrestrial: sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat.*

*Aquatic: sensitive aquatic and wetland areas including aquacultural ponds, surface streams and rivers.*

#### RECORD KEEPING:

Make an accurate written record of each spray application within 24 hours of application and keep the record for a minimum of two years.

#### The record should include:

- Date of use with start and finish times.
- The location including address and block/sprayed
- Product trade name (full name) and active ingredient
- Rate of application including the amount of product used per hectare and number of hectares sprayed
- Situation, crop or commodity
- Weather conditions: wind speed and direction, temperature, relative humidity and Delta T
- Nozzle brand, model, size, type, and spray system pressure
- Height of spray boom from ground
- Name and contact details of person applying the product

**Advisory instructions** (i.e. not mandatory) for use in fallow from 1st October to 15th April

- Use nozzles that produce extremely coarse to ultra coarse droplets
- Use higher water rates to give better efficacy
- Use slower application speeds to allow operators to lower boom heights. ■