

DROPZONE

TECHNOTE



AUSTRALIAN  
THROUGH  
& THROUGH

# DROPLET OPTIMISATION

## MORE DROPLETS ONTO THE TARGET WEED.

An optimised droplet spectrum -  
Not too big, Not too small.

### UNIQUE FORMULATION OF 500 g/L 2,4-D AMINE

- Faster activity
- Greater efficacy
- Low odour
- Reduced buffer zones.

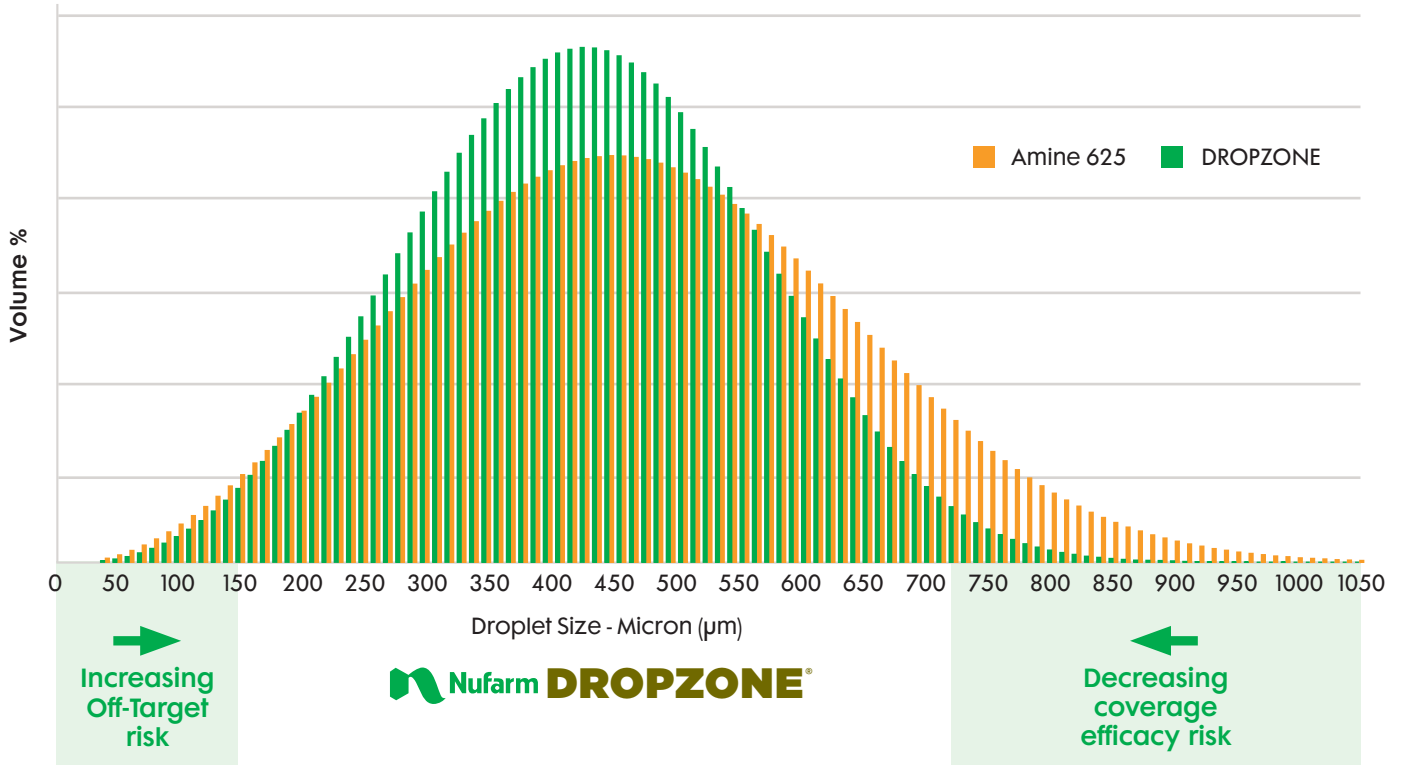


## A non-volatile formulation for use in Fallow, Sugarcane, grass pasture & salvage spraying of cereals.

The droplet optimisation technology within the formulation of Nufarm DROPZONE has enabled the delivery of a narrow span of droplet size compared with traditional 2,4-D amine formulations, this span reduction is seen in the below data which shows Nufarm DROPZONE reduces the span by 14% when applied as very coarse spray quality.

### Droplet optimisation with Nufarm DROPZONE

Very Coarse spray quality - AIXR11003 at 3 Bar



## THE OPTIMAL DROPLET SIZE FOR HERBICIDE APPLICATION IS BETWEEN 150 MICRON (µm) AND 720 µm

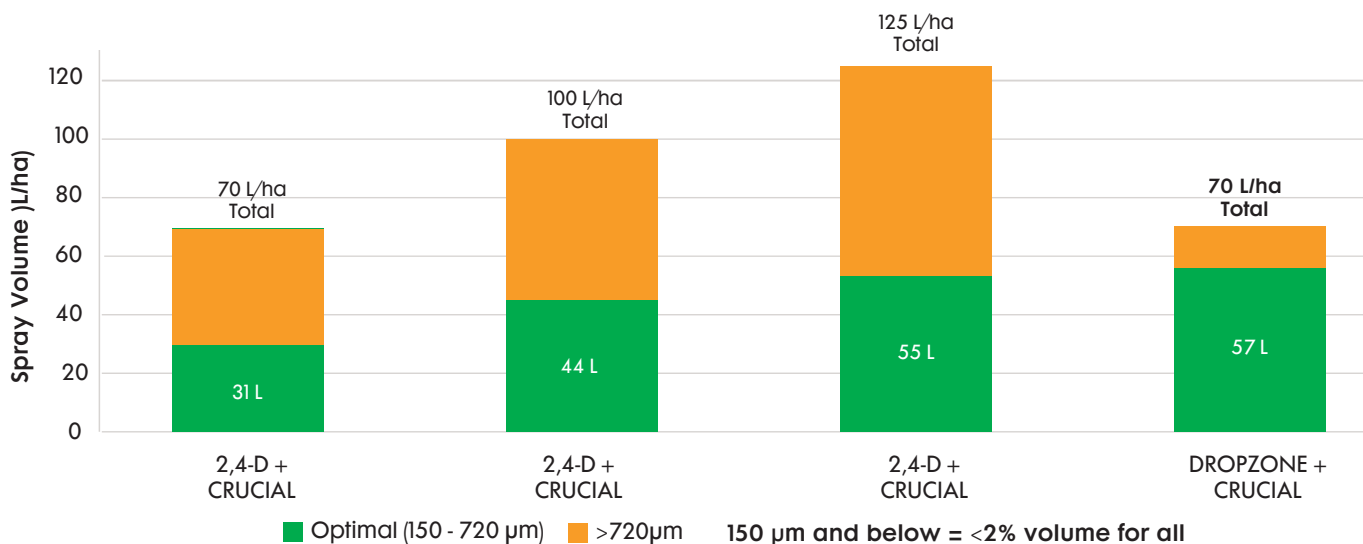
- Droplets less than 150 µm are classified as driftable fines and increase off target risk.
- Droplets greater than 720 µm can reduce efficacy.
  - Droplets too large reduce coverage.
  - Oversize droplets are prone to bounce or runoff from the leaf surface.



Nufarm DROPZONE with droplet optimisation technology, delivers a greater volume of spray solution in the optimal range (150 µm to 720 µm), for **Very Coarse, Extra Coarse and Ultra Coarse** spray qualities.

The chart below shows Nufarm CRUCIAL + Nufarm DROPZONE when applied with an Ultra Coarse spray quality, delivers nearly double the total spray volume within the optimal droplet range compared to traditional 2,4-D + Nufarm CRUCIAL.

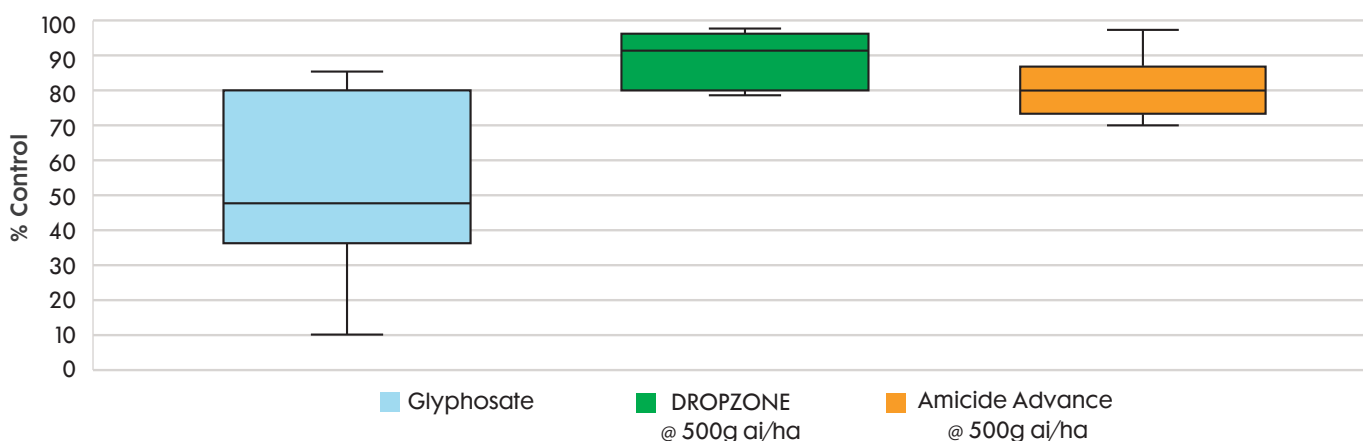
## Droplet optimisation with Nufarm DROPZONE



## FINAL % CONTROL SUMMARY

### Nufarm DROPZONE Versus 2,4-D Amine in tank mix with Glyphosate

11 paired comparison: Mallow, Paddy Melon, Sowthistle (Glyphosate Susceptible) Fleabane, Wireweed, Canola, Field pea, Vetch.



The photo below shows a trial result from Southern QLD. Improvement of Sowthistle control is due to the droplet optimisation that is delivered by Nufarm DROPZONE.

## SOWTHISTLE EFFICACY - 2,4-D ALONE

NUSQ-21-21176509-H08 VC spray quality 100 L/ha



Nufarm DROPZONE with droplet optimisation technology is a non-volatile, low drift formulation which has resulted in reduced buffer zones on the label compared to traditional 2,4-D formulations.

## COMPATIBILITY

Nufarm DROPZONE® is physically compatible with: Nufarm CRUCIAL®, Nufarm Glyphosate 450, Nufarm weedmaster® DST®, Nufarm weedmaster® ARGO®, Nufarm weedmaster® DUO, Nufarm Kamba® 750, Fluroxypyr 400 products, Starane\* Advanced, Nufarm Archer® 750, Garlon\* 600, Nufarm Saracen®, Terra'd'or\*.

Consult Nufarm DROPZONE label for minimum water rate and mixing order.

## APPLICATION

Nufarm DROPZONE must be applied with a spray quality not smaller than VERY COARSE as per 2,4-D labelling requirements.

**DO NOT** apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application.

The information and recommendations set out in this brochure are no substitute for professional or expert advice and are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables, and/or developed resistance. To the maximum extent permitted by law, Nufarm Australia Limited disclaims all warranties of any kind, whether express or implied, including but not limited to any warranty that the information is up-to-date, complete, true, legally compliant, accurate, non-misleading or suitable.

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 Nufarm **DROPZONE**®