



# STEPGROW<sup>®</sup> DSD

MULTI-PURPOSE ADJUVANT  
FOR DRONE APPLICATION

STEPGROW DSD is a natural oil-based and flowable adjuvant, specifically designed for drone application, offering excellent drift control, spreading and deposition properties. When combined with solid formulation pesticides, STEP GROW DSD exhibits remarkable foam control, surpassing industrial benchmarks and organosilicon adjuvants.

## Solution Advantages

- Multi-purpose adjuvant
- Easy to handle at various temperatures from 10°C to 45°C
- Versatile for many formulation types – functions as an in-can adjuvant in formulations like suspension concentrate (SC), oil-in-water emulsion (EW), oil dispersion (OD), emulsifiable concentrate (EC) and suspoemulsion (SE).



## Good Drift Control

Tebuconazole (TBZ) 430 SC (15 ml/L)	Dv50 <sup>1</sup> (µm)	Relative Span <sup>2</sup>	Remarks
Non-adjuvant	109.60	1.35	STEPGROW DSD increases droplet size by 30% and provides uniform droplets compared to market benchmarks.
+ STEP GROW DSD (1% v/v)	142.20	1.16	
+ Market Benchmark A (1% v/v)	120.70	1.14	
+ Market Benchmark B (1% v/v)	141.50	1.24	

<sup>1</sup>Dv50 = Particle size of 50% of spray volume.

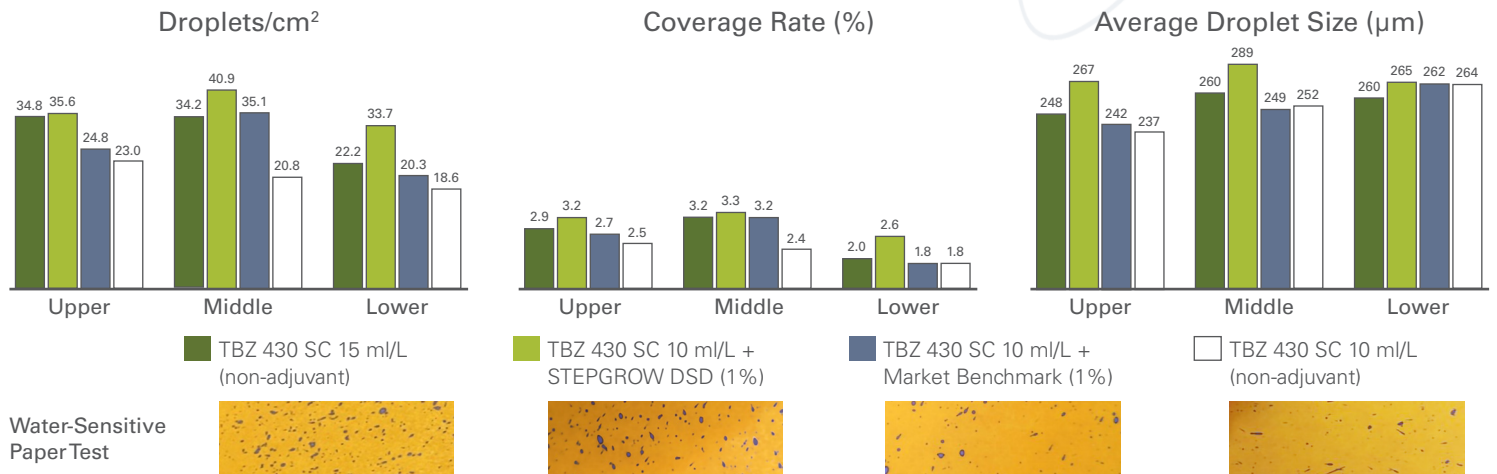
<sup>2</sup>Relative Span = A value determined by subtracting the DV0.1 value from the DV0.9 value and dividing it by DV0.5 value. The smaller the number, the less variation there is between the size of the droplets in the spray spectrum.

## Larger and Better Drift Control Droplets



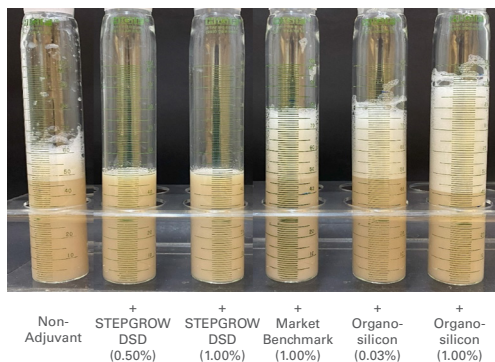
All treatments include Indoxacarb 15% EC (dilution 240X)

## Enhances Droplets Deposition and Distribution



Addition of STEPGROW DSD enhances deposition property and demonstrates better density, distribution and droplets size than the market benchmark and untreated at lower and high dosages.

## Excellent Foam Control



- Addition of STEPGROW DSD provides excellent foam control capability while market benchmark and organosilicon treatments remain at very high foam levels.
- Similar foam control properties were observed in Diflubenzuron 25% Wettable Powders (WP), Imidacloprid 70% Water Dispersible Granules (WG), Mancozeb 75% WP and Tricyclazole 75% WG.

Contact your local Stepan sales representative to learn more about our full adjuvants portfolio and our full line of agricultural products. Visit [stepan.com/agriculture](http://stepan.com/agriculture) for more information and to order samples.



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