HASTEN FOR DRONES

DRONE PRODUCT BULLETIN

HASTEN†

SPRAY ADJUVANT

Adjuvant or carriers for Drone and other Aerial Applications

HASTEN is a low viscosity oil-based adjuvant which can be used as a tank-mix adjuvant for drone or aerial applications where an oil-based adjuvant are recommended or as carrier for ULV application using oil soluble products

Key Benefits of HASTEN

- A high quality formulation providing easy dispersion and stable emulsion
- More than 50 cross label registrations
- Penetration of waxy cuticles to maximise uptake of lipophilic actives
- Increased droplet size to reduce drift potential*
- Compatible with wide range of agricultural products & formulation types
- Renewable ingredients—Canola oil
- Approved for Organic Input
- Safe to crops**

Suggestions for Use

Tank-mix adjuvant in water based sprays:

- HASTEN should be applied at approx. 0.5—1.0L/ha.
- For very low water volume applications (<10L/ha) the spray mixture may become very viscous. HASTEN should not be added to water at > 20%
- Best suited to lipophilic (oil-soluble) systemic actives which benefit from the penetrative properties of HASTEN
- Using HASTEN at concentration >20% of spray mixture or as carrier for ULV (anhydrous) applications may result in viscous, gelling or non-uniform mixtures which may be difficult to apply.
- Always prepare a jar test for a new situation.

As carrier for ULV anhydrous spray:

HASTEN is generally suitable as the carrier for EC formulations but is generally not compatible with other formulation types.

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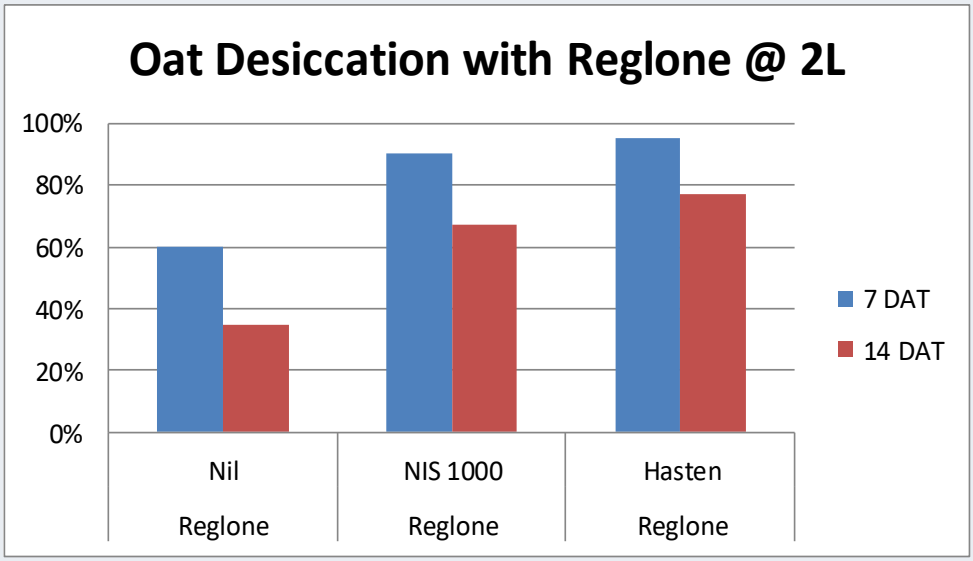
Drone Trial Results



- Location Sao Paulo, Brazil
- Crop—Avena sativa desiccation
- Date July 10th 2021
- Application via drone
- Rotating nozzles
- Water application rate 10 L/Ha

Trial utilising drones to desiccate oats with Reglone, demonstrating increased control with the addition of HASTEN at 1% when compared to Nil adjuvant and NIS 1000 - at 1%

Features	&	Benefits
Penetration - HASTEN's main function is to assist penetration of active ingredients through waxy cuticles through the solvency action of ethyl and methyl esters		HASTEN can help transport certain pesticide active ingredients through what is otherwise a significant barrier to entry and could benefit pesticide drone applications
Safety / Environment - HASTEN has a very low phytotoxicity potential extensively field tested and safely used across many crops and agrichemicals over 20 years		HASTEN is also generally safe to the user and to the environment and suitable for use as an adjuvant with drones when used as directed on labels
Adhesion and Spread - HASTEN contains spreading and wetting surfactants which increase the adhesion and spreading of spray deposits		HASTEN when applied by drones increase adhesion and spread and may increase the performance of many agricultural chemicals
Compatibility - Due to its non-ionic nature, HASTEN is compatible with a wide range of agrichemicals including herbicides, fungicides, insecticides and defoliants		The extensive compatibility of HASTEN with many agricultural products make HASTEN suitable for a broad range of herbicides, fungicides, insecticides and defoliants

About Us

Victorian Chemical Company is an Australian company headquartered in Coolaroo, VIC. The company was founded in 1933 and is committed to providing quality products and professional and friendly service.

Our products are used for:

1. Improving farm productivity and land management,
2. Construction of infrastructure and commercial and industrial facilities.

Through our efforts we are helping to meet the demands of a growing world population for food, infrastructure and economic development.

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