

# DELUGE<sup>+</sup> LOW FOAM

## WETTING AGENT

- High performance non-ionic surfactant
- Low foaming - helps reduce foaminess of highly foaming products
- Registered for use in horticulture, grapevines, tree crops, sugarcane and broadacre
- Excellent wetting and spreading of spray droplet on plant surfaces
- Increases activity of agricultural products when used as directed
- Soft on crops, beneficials and the environment
- Biodegradable – based on renewable materials
- Suitable for IPM programs
- Available in easy to lift 10L pack
- Manufactured according to a quality management system

### Product Description

Deluge Low Foam is a low foaming, non-ionic wetting agent that is compatible with most agricultural products. It will mix easily with most water qualities used for agricultural spraying. Deluge Low Foam is generally crop-safe when used as directed and therefore well suited to Horticultural applications.

### Product Performance

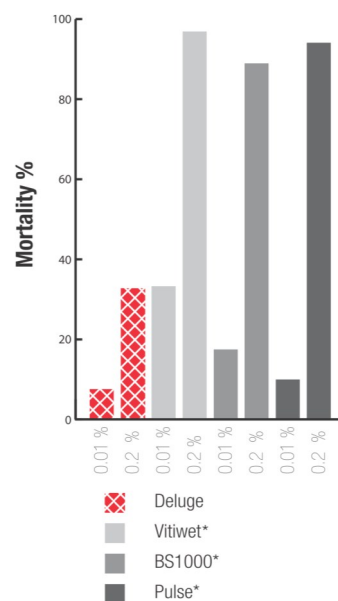
Deluge Low Foam will reduce the surface tension of spray water and increase;

- Droplet retention on the target surface at initial impact
- Droplet spreading and wetting (coverage) on the target surface

Deluge Low Foam is a low foaming surfactant. Add last to spray tank where it may help reduce foaminess of other products.

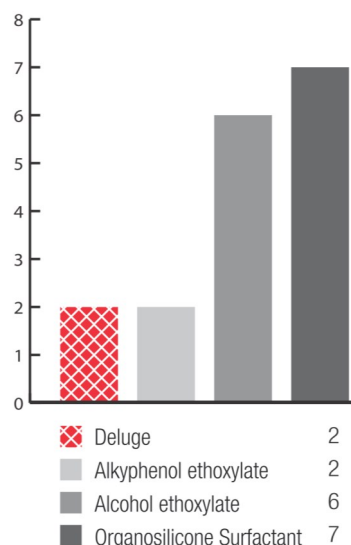
Deluge Low Foam has been tested for toxicity against a variety of beneficial insects and mites and been found to be amongst the safest non-ionic wetting agent products available. Graph 1 shows the toxicity of four wetting agents applied at low (0.01%) and high (0.2%) rates to the predatory mite *Typhlodromus occidentalis*. At the higher rate, Deluge is the only wetting agent not to kill most of the mites.

**Graph 1**  
Organism Toxicity Study  
*Beneficial Organism - Predatory Mite*



Solutions of the wetting agents were applied directly to the mites by spraying to the point of run-off. Mortality was assessed after 24 hours.

**Graph 2**  
Plant Phytotoxicity Study  
*Crops: Apples, Tomatoes, Lettuce, Grapes*



- 0 No observable effects in most circumstances
- 10 Severe effects have been observed

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## W E T T I N G   A G E N T

### Product Performance (cont.)

Deluge Low Foam has also been tested for phytotoxicity effects in a number of sensitive crops where it has been shown to be amongst the safest of the available wetting agents and similar to the Alkylphenol ethoxylates (eg Vitiwet\*, Agral\*) . Graph 2 shows comparative phytotoxicity ratings for 4 different types of wetting agents based on the effects observed when the wetting agents were applied alone multiple times through a season to apples, tomatoes, lettuce and grapes. The Organosilicone surfactants (eg Pulse\*, Sprinta<sup>†</sup>) and Alcohol ethoxylates (eg BS1000\*) were found to be much more likely to cause adverse crop effects.

### Key Benefits

- Increases the performance of agricultural products when used as directed on product labels
- Soft on crops, beneficials and the environment
- Compatible with most agricultural products and types of spray water
- Suitable for IPM programs
- Manufactured according to a quality management system ensuring quality, consistency and reliability

### General Specifications

Appearance	Slightly Hazy Pale Liquid
Colour	2-4 Gardner
Specific Gravity (20°C)	1.04 g/ml

† Trademark Used Under Licence

\* Third Party Trademark

### The Company

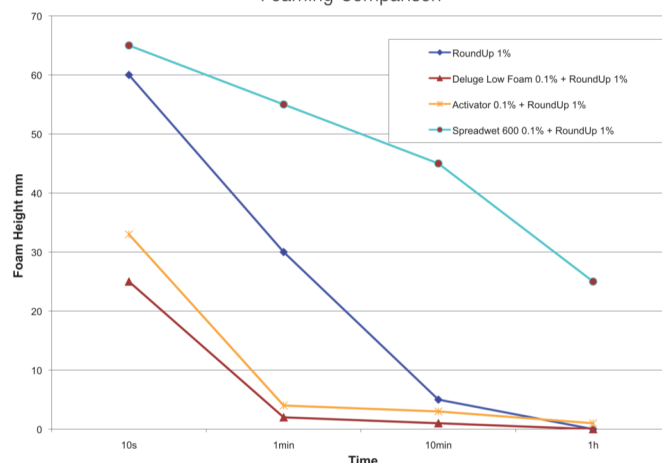
Victorian Chemical Company is committed to providing quality products and professional and friendly service, that our customers can confidently rely on to add value to their businesses. In order to achieve this goal we will continue to develop, our understanding of our customer's requirements, the operations of our company and our technical expertise.

### Suggestions for Use

For High Volume Horticultural applications, Deluge Low Foam should be used at 10ml/100L of spray solution and can be used with most fungicides & insecticides unless specified on their label.

Herbicide applications generally require higher rates of Deluge Low Foam in the range 12 - 200ml/100L (see label for details).

Graph 3  
Foaming Comparison



Method: Solutions were prepared by adding the wetting agent and RoundUp to 50mL of deionised water at 25°C in 100mL measuring cylinder.

The cylinder was capped and shaken vigorously for 15 seconds then allowed to stand. Foam height was measured above the liquid level at various intervals.

Graph 3 shows that Deluge Low Foam can be used to reduce the foaming of products such as RoundUp. Note that many other wetting agents will increase or stabilize the foaming rather than reduce it.

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