

Agricultural Super Spreading Agent DCA-1403

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Introduction

DCA-1403 is a polyether-modified organosilicon compound that can significantly reduce the surface tension of a system, thereby providing strong wetting ability. It is an excellent substrate wetting agent. At a concentration of 0.1% (wt), it can reduce the surface tension of water to 20.5 mN/m. When mixed with pesticide solutions in the right proportions, it can reduce the contact angle between the spray liquid and the leaf surface, increasing the coverage of the spray. Additionally, it allows pesticides to be absorbed through leaf pores, enhancing efficacy, reducing pesticide usage, saving costs, and minimizing environmental pollution. It is widely used in pesticide spraying aids, coatings additives, and the cleaning industry.

Physicochemical Data

- Chemical composition: Polyether-modified silicone oil
- Appearance: Light yellow transparent viscous liquid
- Active content: 100%
- Solvent: None

Product features

- Superb spreading ability
- Exceptional wetting properties
- Reduces the amount of spray liquid required
- Increases the coverage of spray liquid
- Facilitates rapid pesticide absorption

Application and Dosage

DCA-1403 is an agricultural super spreading agent that can be incorporated into pesticide formulations or used for tank mixing.

For pesticide formulation, it is recommended to add it in the range of 0.5% – 5% of the pesticide concentrate. Adjust the pH of the pesticide to be in the range of 6.5-7.5.

For tank mixing, use a quantity of 50 grams of DCA-1403 per 200 kilograms of spray liquid. Typical application rates are as follows:

Application Area	Dosage
Plant Growth Regulators	0.025-0.05%
Herbicides	0.025-0.15%
Insecticides	0.025-0.1%
Fungicides	0.015-0.05%
Fertilizers and Trace Elements	0.015-0.1%

Packaging and storage:

25KG iron drum, stored in a cool and dry place.

Note: The purpose of this manual is to provide basic product information to technical personnel involved in the development of coatings, inks, pesticides, and other industries. It is intended for research and reference use and does not carry any warranties. Please conduct preliminary tests to assess its suitability.