PRODUCT TECHNICAL DATA

Super Wetting Agent WL510

Product Overview

WL510 is a super-spreading polyether silicone adjuvant designed for addition to agricultural-chemical spray formulations. WL510 can reduce the surface tension of spray formulations to below 22 mN/m, compared with a lower limit of approximately 30 mN/m for conventional non-silicone adjuvants. This reduction is dynamic and rapid, maximizing the liquid contact area when a spray droplet reaches the leaf surface.

Product Features

- Super dispersant for pesticide spray formulations.
- Enhances spray adhesion to leaves.
- Improves spray coverage.
- Provides rainfastness through stomatal penetration.
- Reduces spray-water volume.

Typical Properties

Item	Specification
Appearance	Clear to amber liquid
Viscosity, 25°C, mm²/s, approx.	40
Surface tension (0.1%), mN/m, approx.	21

Application Example

Tank-mix adjuvant for use with agricultural chemicals as a super-spreading agent.

Application Guidance

WL510 disperses readily in water and should be added to the spray tank at the final stage. Do not over-agitate, to minimize foam. WL510 hydrolyzes readily under acidic or alkaline conditions. Ideally, spray formulations should be buffered as close to neutral as possible (pH 7.0). Spray mixtures should be used immediately after mixing rather than left standing, for example overnight. High spray volumes are not required for good coverage when using WL510 and should be avoided to prevent runoff associated with excessive spray volume. WL510 is typically used in spray tanks at 0.025%-0.1%.

Shelf Life and Packaging

Store in the original sealed container. The standard shelf life is 12 months from the date of manufacture. Packaging: 18 kg/200 kg.