

Silwet™ L-77 / L-77 AG Super Spreader

Description

Silwet L-77 / L-77 AG super spreader is a high-performance super spreader with exceptional spreading and stomatal infiltration when needed. It is a trisiloxane ethoxylate based adjuvant that lowers the surface tension of spray solutions beyond that which is achievable with conventional nonionic surfactants.

Key Features and Typical Benefits

- Super spreader
- Helps improve rainfastness
- Promotes rapid uptake of agrochemicals
- Promotes spray volume reduction
- Nonionic
- Meets EPA 40 CFR §180.910 requirements⁽¹⁾
- OMRI Listed for organic use

Typical Physical Properties

Property	Value
Surface Tension mN/m (0.1% wt%)(a)	20.5
Cloud Point (0.1 wt%), °C	<10
Viscosity (cPs at 25 °C)	20
Specific Gravity 25 °C	1.007
Flash Point(b), °C (°F)	116 (241)

Typical properties are average data and are not to be used as or to develop specifications.

Potential Applications and Use Rates

Application	Typical Use Rate
Fertilizers and Micronutrients	0.015% to 0.1%
Fungicide	0.015% to 0.05%
Herbicide	0.025% to 0.15%
Insecticide	0.025% to 0.1%
Plant Growth Regulators	0.025% to 0.05%

Use rates are dependent on crop, agrochemical and spray volume requirements.

1. The components meet the requirements of U.S. regulation EPA 40 CFR §180.910, and therefore are exempt from tolerances when used as an inert ingredient in agricultural applications in accordance with the other conditions of that regulation
 1. Surface tension by Wilhelmy Plate Method
 2. Pensky-Martens Closed Cup, ASTM Method D93

General Conditions for Use In Agrochemical In-Can Formulations

Silwet L-77 / 77 AG super spreader may be used as a component in agrochemical formulations. Although organosilicone surfactants are subject to hydrolysis under acidic or basic conditions, optimum performance is achieved by buffering the formulation to pH 6.5 to 7.5. Additionally, it is recommended that Silwet L-77 / 77 AG super spreader be used at a concentration of at least 5%, based on the total formulation.

As a Tank-Mix Adjuvant

Silwet L-77 / 77 AG super spreader, when used as a tank-side adjuvant may be used to improve spray coverage, improve uptake or to allow for a reduction in spray volume. Silwet L-77 / 77 AG super spreader is most effective as a tank-side adjuvant when spray mixtures are within a pH range of 5 to 8 and used within 24 hours of preparation. High spray volumes, coupled with high surfactant rates, are not required to achieve sufficient coverage with Silwet L-77 / 77 AG super spreader. In fact, it has the potential to provide adequate coverage in many low volume spray applications at rates between 0.025% and 0.1%.

Patent Status

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Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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