

Silwet™ 618 Super Spreader

Description

Silwet 618 super spreader is a proprietary trisiloxane alkoxyate based super spreading wetting agent, used where spray coverage is needed but rapid uptake of agrochemicals is undesirable.

Key Features and Typical Benefits

- Super spreader with low to no stomatal infiltration
- Promotes spray volume reduction
- Can improve spray coverage
- Nonionic
- Meets EPA 40 CFR §180.910 requirements⁽¹⁾

Typical Physical Properties

| Property | Value |
|---|-----------|
| Surface Tension (0.1%, mN/m) ^(a) | 23 |
| Cloud Point (0.1 wt%), °C | 49 |
| Viscosity (cSt at 25 °C) | 112 |
| Specific Gravity at 25 °C | 1.0102 |
| Flash Point(b), °C (°F) | 165 (330) |

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 |
|--------------------|-------------------------|
| Fungicide | 0.01 to 0.5% |
| Herbicide | 0.025 to 0.1% |
| Insecticide | 0.01 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 §180.920, and therefore are exempt from tolerances when used as an inert ingredient in agricultural applications in accordance with the other conditions of that regulation.
 - (a) Surface tension by Wilhelmy Plate Method
 - (b) Pensky-Martens Closed Cup, ASTM Method D93

General Conditions for Use In Agrochemical In-Can Formulations

Silwet 618 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 -7.5. Additionally, it is recommended that Silwet 618 super spreader be used at a concentration of at least 5%, based on the total formulation.

As a Tank-Mix Adjuvant

Silwet 618 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. It is most effective as a tank-side adjuvant when spray mixtures are within a pH range of 5-8 and used within 24 hours of preparation.

High spray volumes, coupled with high surfactant rates, are not required to achieve sufficient coverage with Silwet 618 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

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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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