

## 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<sup>(1)</sup>

### Typical Physical Properties

| Property                                    | Value     |
|---|-----------|
| Surface Tension (0.1%, mN/m) <sup>(a)</sup> | 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

여기에 포함된 어떠한 내용도 관련 특허가 없음을 의미하거나 특허 소유자의 허가 없이 특허에서 다루는 발명을 실행하기 위한 허가, 유도 또는 권고를 구성하는 것으로 해석되어서는 안됩니다.



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