

## Silwet\* 719

spreader

### Description

Silwet\* 719 spreader is a proprietary trisiloxane alkoxyate based wetting agent. It is an excellent candidate to consider for use where superior spray coverage is needed.

Silwet 719 spreader can help improve spray droplet adhesion of agrochemicals on plant foliage, thus potentially allowing reduction in spray volume. Since more of the spray is typically delivered to the target, less water is required to cover a given leaf surface. Silwet 719 spreader is nonionic in nature, making it useful with a broad range of agrochemical formulations.

### Key Features and Benefits

- enhances spreading
- promotes spray volume reduction
- improves spray coverage
- patent No. 5,104,647
- nonionic
- The components meet the requirements of U.S. EPA regulation 40 CFR §180.910, and are therefore exempt from tolerances in food when used as an inert ingredient in agricultural applications in accordance with the other conditions of that regulation.

### Typical Physical Properties

Surface Tension (0.1%, mN/m) <sup>(a)</sup>	21.5
Appearance	Pale yellow liquid
Cloud Point (0.1 wt%), °C	44
Pour Point (°C),	-20
Viscosity (cSt @ 25°C)	196
Specific Gravity (25/25°C)	1.019
Flash Point, <sup>(b)</sup> °C (°F)	126.6 (260)

(a) Surface Tension by Wilhelmy Plate Method.

(b) Pensky-Martens Closed Cup, ASTM Method D93

Typical data are average data and actual values may vary.

Typical data shall not be used as product specifications.

### **Potential Applications**

#### **In Agrochemical Formulations**

Silwet 719 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 719 spreader be used in formulated pesticides at a concentration sufficient to deliver between 0.025% and 0.1% product to a spray mixture upon dilution.

#### **As A Tank Mix Adjuvant**

Silwet 719 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 719 spray adjuvant may be most effective as a tank-side adjuvant when spray mixtures are 1) within a pH range of 5-8, and 2) used within 24 hours of preparation.

High spray volumes, coupled with high surfactant rates, are not typically required to achieve sufficient coverage with Silwet 719 spreader. In fact, Silwet 719 spreader 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.

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