

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

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

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Limitations

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

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas

+1 800 295 2392

Toll free*

+704 805 6946

Direct Number

*All American countries

Latin America

Brazil

+55 11 4534 9650

Direct Number

Mexico

+52 55 2169 7670

EMEAI- Europe, Middle East, Africa & India

Europe

+390510924300

Direct number

India, Middle East & Africa

+ 91 44 71212207

ASIA PACIFIC

China

800 820 0202

Toll free

+86 21 3860 4892

Direct number

Japan

+81 3 5544 3111

Direct Number	Direct number*	Direct number
	*All Middle Eastern countries, Africa, India,	Korea
		+82 2 6201 4600

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