

Silwet™ 719 Spreader

PRODUCT DESCRIPTION

Silwet 719 spreader is a proprietary trisiloxane alkoxylate (TSA) and non-ionic surfactant-based wetting agent technology that lowers the surface tension of agrochemicals beyond that which is achievable with conventional non-ionic surfactants.

KEY FEATURES & TYPICAL BENEFITS

- Enhances spreading and improves spray coverage
- Promotes spray volume reduction
- Improves droplet adhesion

CERTIFICATIONS & STANDARDS⁽¹⁾

- Meets EPA 40 CFR §180.910 requirements⁽²⁾.
- OMRI.
- KIWA.
- CPDA⁽³⁾.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUE
Appearance	Pale yellow liquid
Surface tension (0.1%, mN/m)	21.5
Spread diameter ⁽⁴⁾ (0.1%, mm)	18
Viscosity (25 °C, cPs)	196
Solubility in water (20 °C)	Dispersible
pH (10%)	6.0
Density (g/cm ³)	1.0196
Pour point (°C)	-20
Flash point (°C)	126.6
Cloud point (0.1%, °C)	44

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

(1) For further information please contact your local Momentive representative.

(2) 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.

(3) This product is certified under the Council of Producers and Distributors of Agrotechnology in US (CPDA Voluntary Adjuvant Certification Program), ensuring this product meets the functionality claims indicated on the label according to a specified, uniform set of standards, and that ingredients used in the product meet EPA regulations for approved ingredients for use in pesticide tank mixes.

(4) Spread of a 10 µL drop on a flat polystyrene surface.

POTENTIAL APPLICATIONS AND USE RATES

APPLICATION	TYPICAL USE RATE
Fertilizers and Micronutrients	0.025% to 0.100%
Fungicide	0.025% to 0.100%
Herbicide	0.025% to 0.100%
Insecticide	0.025% to 0.100%
Plant Growth Regulators	0.025% to 0.100%

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

Adjust spray volume to avoid run-off: use lower water volume for easier-to-wet crops; use higher water volume in larger, dense canopies.

Silwet 719 is suitable for use on most horticultural crops, but Momentive advises testing a small area first for phytotoxicity before spraying larger areas.

Do not mix Silwet 719 with spray oils as phytotoxicity may occur.

GENERAL CONDITIONS FOR USE

IN AGROCHEMICAL IN-CAN FORMULATIONS

Silwet 719 spreader may be used as a component in agrochemical formulations. Although organosilicone adjuvants are subject to hydrolysis under acidic or basic conditions, optimum performance is achieved by buffering the formulation to a pH range of 6.5 to 7.5. Additionally, Silwet 719 is recommended to be used in formulated agrochemicals at a concentration sufficient to deliver between 0.025% and 0.100% of 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 within a pH range of 5.0 to 8.0 and 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, the adjuvant has the potential to provide adequate coverage in many low volume spray applications at rates between 0.025% and 0.100%.

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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