

Silwet™ HS 312 Adjuvant

Description

Silwet HS 312 adjuvant is a cost-effective, hydrolytically stable silicone with broad pH stability for in-can pesticide products. Silwet HS 312 adjuvant offers excellent spreading and lower spray application rates with extended stability in water-based formulations between 3 to 12 pH.

Key Features and Typical Benefits

- Excellent super spreading
- Can improve spray coverage on crops
- Promotes spray volume reduction
- Compatible with most agrochemical formulations
- Can provide excellent stability with Ag formulations between 3 to 12 pH
- Meets EPA 40 CFR §180.910 requirements⁽¹⁾

Typical Physical Properties

Property	Value
Appearance	Yellow to amber liquid
Surface Tension mN/m (0.1% wt%)(a)	26.7
Cloud Point (0.1 wt%), °C	42
Viscosity (cPs at 25 °C) (LVT No 3, 100 rpm)	70
Critical Micelle Concentration (wt%)	0.007
Specific Gravity at 25 °C	1.002
pH Stability	3 – 12
Spreading Diameter, mm	35

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

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) Wilhelmy Plate Method; solution prepared in 0.005M NaCl

General Conditions for Use

In Agrochemical In-Can Formulations

Silwet HS 312 adjuvant is a cost-effective spreader that can be used in in-can pesticide products in the 3 to 12 pH range. It can be added as a component directly to such formulations to provide better spreading during spray application.

As a Tank-Mix Adjuvant

The addition levels of Silwet HS 312 adjuvant are dependent on the level of spreading required in the spray application of the pesticide. A recommended use rate is 5% of the total pesticide formulation, or 0.05% to 0.20% of the tank-mix mixture.

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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