

Silwet™ HS 604 Adjuvant

Description

Silwet HS 604 adjuvant is a new pH-stable silicone co-adjuvant. It is a potentially cost-effective product to lower the total adjuvant use in many in-can glyphosate and related herbicide formulations, typically without compromising herbicide performance.

Key Features and Typical Benefits

- Enhanced glyphosate uptake
- Potential for 60% lower adjuvant rate for in-can herbicides
- Potential for reduced eye irritation relative to 12% TAE-loaded glyphosate formulations due to lower adjuvant rate
- Low foaming
- Nonionic
- Meets EPA 40 CFR §180.920 requirements⁽¹⁾

Typical Physical Properties

| Property | Value |
|---|---|
| Appearance | Transparent colorless to pale yellow liquid |
| Surface Tension mN/m (0.1% wt%)(a) | 25 - 29 |
| Viscosity 25 °C, cPs | 30 - 80 |
| pH Stability | 4 – 10 |
| Spreading Diameter(b), mm | 40 |
| Density (estimated), gm/cm ³ | 1.0 |
| Solids, % | 90 |

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
 - (b) Spreading at 0.1%

General Conditions for Use

In Agrochemical In-Can Formulations

Silwet HS 604 adjuvant is stable to hydrolysis between pH 4 and pH 10. It is recommended that Silwet HS 604 adjuvant be blended with another adjuvant, such as Tallow Amine Ethoxylate (TAE) in the ratio of 85% TAE and 15% Silwet HS 604 adjuvant. This composition can be then used in a glyphosate formulation, between 3 to 7% by weight, depending on the dilution rate of the herbicide formulation.

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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