Silwet BY MOMENTIVE

Technical Data Sheet

Silwet™ Power Super-Wetter

Description

Silwet Power super-wetter is an organosilicone based powder adjuvant that can enhance the water absorption efficiency of hard-to-wet soils by increasing their water infiltration, drainage, water retention and hydrophilicity. Silwet Power super-wetter was designed to overcome the challenges an application in the powder form can face, including low uptake, poor absorption, leaching, and run-off of the broadcasted fertilizers, while improving their performance and efficiency.

Key Features and Typical Benefits

- Improves soil-air exchange capacity resulting in favorable aerobic conditions for soil microbes, helping to hasten their metabolic processes
- Brings better uniformity to soil wetting, increasing the availability and uptake of plant nutrients and the efficacy of soil-applied agrochemicals
- Helps to reduce hydrophobicity of soils, boosting water infiltration and promoting less water use
- Enables low dose rates and reduced number of applications
- Promotes the development of feeder (white & hairy) roots

Typical Physical Properties

Physical Property	Standard Value
Appearance	White free-flowing homogenous powder
Spread Diameter, mm (0.2% wt%)	43
Aqueous pH, 1%	7
Surface Tension, mN/m (0.1% wt%)	21
Bulk Density, g/mL (0 untapped[(a)]	0.24
Bulk Density, g/mL (20 tapped)[(b)]	0.30

Typical properties are average data and are not to be used as or to develop specifications.
(a) Bulk density without any compaction or tapping.
(b) Bulk density after tapping 20 times.

Potential Applications and Use Rates

Application (Broadcasting)	Typical Use Rate (Kg/Acre)
Fertilizers and Micronutrients	0.5 to 2.25
Fungicide	0.5 to 1
Herbicide	0.5 to 1
Insecticide	0.5 to 1
Plant Growth Regulators	0.5 to 1

General Conditions for Use

In Agrochemical In-Can Formulations
Silwet Power super-wetter may be used as a component in agrochemical formulations as a wetting agent, to help provide improved fertilizer, pesticide, and water distribution in the soil profile. It is recommended that for typical applications, Silwet Power super-wetter be used at a concentration of at least 5%, based on the total formulation.

As a Tank-Mix Adjuvant
Silwet Power super-wetter is also readily dispersible in water and can be applied as a tank-mix adjuvant through spray, drip irrigation, and drenching, for example.

As a Dry Adjuvant for Broadcast Applications
Silwet Power super-wetter is a dry, white free-flowing homogenous powder which can be applied while broadcasting fertilizers. When using this method, following label instructions, use the recommended dose (kg of fertilizer/ha) and add Silwet Power super-wetter to the mixture at a rate of 5-15 g/kg (or 0.5 to 2.25 kg/acre) mixing thoroughly by hand (wearing appropriate personal protective equipment). The mixture can be directly broadcasted in the field, especially near the root zone. Proper irrigation and agronomic practices specific to each crop should be observed as usual after the broadcasting.

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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