

AgroSpreTM 100

AgroSpre* 100

Description

AgroSpre 100 wetter is a new surfactant to consider for a potentially, cost-effective “tank-mix” spray adjuvant for many agricultural applications.

AgroSpre 100 wetter may be considered as a replacement for Nonylphenol Ethoxylate (NPE) surfactants, the use of which has been banned and/or phased out for agriculture and other applications by government regulation in some jurisdictions.

AgroSpre 100 wetter is based on surface chemistry that can help promote increased spreading performance compared to NPE and other conventional surfactants. Excellent spreading typically means better spray coverage on difficult-to-wet foliar surfaces. This important benefit can help conserve water and promote more efficient use of pesticide treatments as compared with NPE based adjuvants formerly used in many crops.

Key Features and Benefits

Typically, AgroSpre 100 wetter effectively reduces the surface tension of spray mixtures to levels below that observed with conventional NPE based adjuvants. Typical recommended starting levels are 0.05% concentration.

- Faster response compared to NPE surfactants
- Enhanced spreading compared to NPE (1.5X NPE)
- Potentially more cost-effective, due to lower rate compared to NPE

*Agro Spre^d is a trademark of Momentive Performance Materials

Typical Physical Properties

Appearance	Colorless to light yellow
Viscosity @ 25°C, cSt	65
Surface Tension (0.1%) mN/m	26
Pour Point, °C	<0
Flash Point, PMCC, °C	213
Specific Gravity @ 15°C	1.00

Potential Applications

AgroSpre^d 100 wetter may be considered for use as a spray adjuvant component in many agrochemical products and treatments. As a tank-side spray adjuvant, optimum performance may be achieved when spray mixtures are between pH 5.0 and 8.0, and used within 24 hours of preparation. Typical tank-mix use levels range from 0.025% to 0.1% depending on the spray treatment.

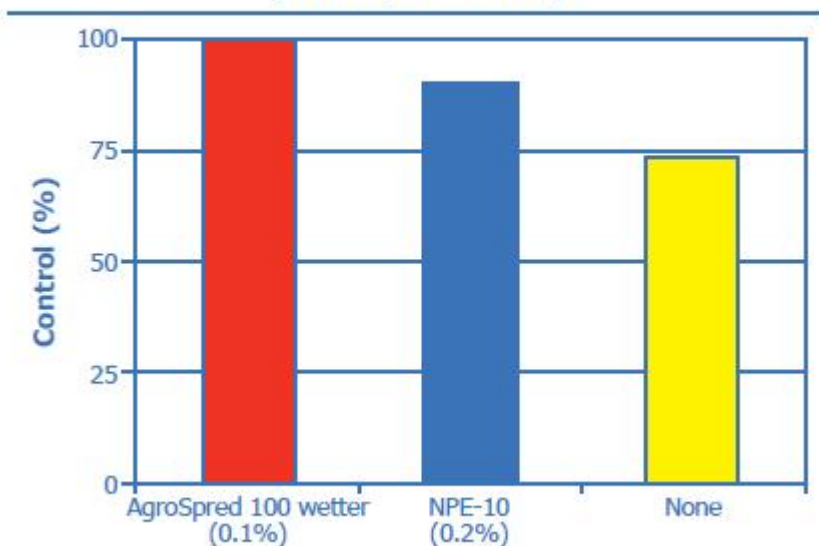
For use in neutral **in-can** formulations (pH 6.5 to pH 7.5), it is recommended that AgroSpre^d 100 wetter be included in the formulation at a level sufficient to deliver between 0.025% to 0.1% in the spray mixture upon dilution.

Processing Recommendations

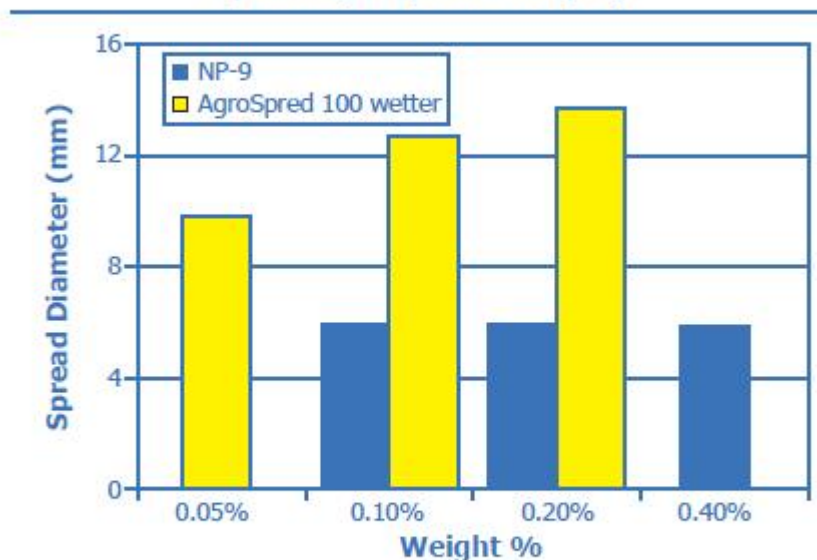
Typical nonylphenol surfactants are well known for their use as wetting agents, dispersants and emulsifiers in pesticide formulations. However, as some reports link nonylphenol to potential health and environmental hazards, formulators are considering alternative adjuvants for Ag products.

AgroSpre^d 100 wetter is an excellent candidate to consider for replacing NPEs. It typically offers better wetting than NPE, which may enable use at half the formulation amount than that of a typical NPE surfactant.

**NPE Replacement w/ 2,4-D Amine (0.1X)
on *Amaranthus Retroflexus*
(14 DAT, Rain 2 HAT)**



Spreading Properties of Spray



Note: Test data. Actual results may vary.

Patent Status

Standard copy to come

Technical subject matter in this publication is described and protected by one or more of the following U.S. Patents and their foreign counterpart patents and/or patent applications: U.S. Patent Nos. 5,104,647; 5,558,806; 5,504,054 and 5,658,852. Other U.S. and foreign patents and/or patent applications not listed covering the subject matter may be relevant.

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas	Latin America	EMEAI- Europe, Middle East, Africa & India	ASIA PACIFIC
+1 800 295 2392	Brazil	Europe	China
Toll free*	+55 11 4534 9650	+390510924300	800 820 0202
+704 805 6946	Direct Number	Direct number	Toll free
Direct Number			+86 21 3860 4892
			Direct number
*All American countries	Mexico	India, Middle East & Africa	Japan
	+52 55 2169 7670	+ 91 44 71212207	+81 3 5544 3111
	Direct Number	Direct number*	Direct number
		*All Middle Eastern countries, Africa, India,	Korea
			+82 2 6201 4600

For literature and technical assistance, visit our website at: www.momentive.com

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*AgroSpre[™] ist ein Markenname der Momentive Performance Materials Inc.

The use of the “[™]” symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.