

ORGANO BREAK

ORGANO-SILICONE SURFACTANT ADJUVANT

PRINCIPAL FUNCTIONING AGENTS:

Blended Polydimethylsiloxane and Alkylphenol Ethoxylate90%
 Constituents Ineffective as Spray Adjuvant.....10%

GENERAL INFORMATION

Innovative manufacturing process produces a superior surfactant adjuvant that offers flexibility, super wetting properties, low interfacial tensions and excellent surface tension reduction properties.

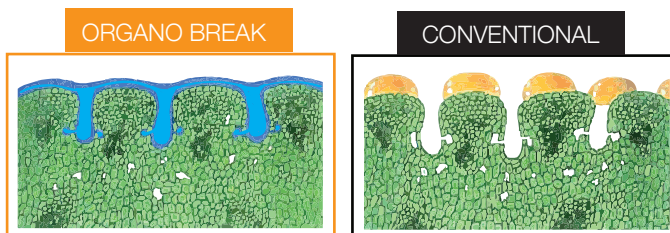
ORGANO BREAK maintains these properties equally in hard water. The unique chemical structure of the Si-O-C bond with ORGANO BREAK resistance to hydrolysis from hard water (bicarbonates).

The small molecular diameter of ORGANO BREAK is the driving force of the super wetting properties, and has been shown to cause aqueous tank mix solution of pesticides to infiltrate leaf surface stomata.

STOMATAL FLOODING – is the entry of a pesticide or nutrient into the leaf’s intercellular structure directly through the stomata.

For stomatal flooding to occur the pesticide or nutrient and surfactant adjuvant must be of a size less than the stomata opening and the surface tension must be low enough to facilitate entry into the stomata. The majority of leaf stomata pores in the cuticle have a diameter of less than 1 nm and a density of about 10¹⁰ pores on cm². Conventional surfactants have not been effective in lowering surface tension to levels needed to induce stomata flooding.

Use of ORAGANO BREAK offers obvious advantages, since more of the pesticide or nutrient enters the leaf, then more is protected from evaporation volatilization, wash off and ultra-violet (UV) degradation.



DIRECTIONS FOR USE

Use at rate of 1 to 5 pints (500 to 2.4 liter) per 100 gallons (400 liters) of spray solution. For backpack use 1 to 5 fluid oz. (30 to 150 mLs) in 1 to 5 gallons (4 to 20 liters) of spray solution.

DOSAGE RATES

■ **ACARICIDES, FUNGICIDES AND INSECTICIDES**

Use 120 mL to 1 liter per 400 liter of spray solution.
 Use the higher if recommended on the pesticide manufacture label.

■ **HERBICIDES, DEFOLIANTS AND DESSICANTS**

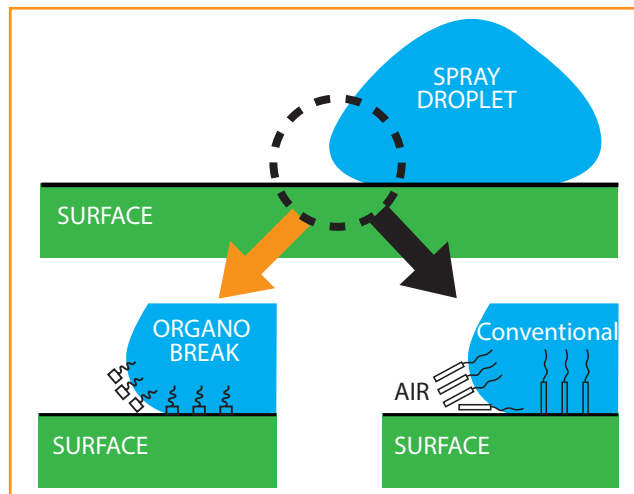
Use 300 mL to 2 liter per 400 liter of spray solution.

■ **FERTILIZER AND MICRONUTRIENTS**

Use 100 mL to 1 liter per 400 liter of spray solution.

SUPER WETTING, FASTER SPREADING – ORGANO BREAK with a molecular diameter of less than 1 nm has lower surface tension and provides effective wetting and spreading on virtually any leaf surface from waxy cuticle to leaves with hairy surfaces. The small molecular

structure of ORGANO BREAK rolls under the leading edge of spray droplets to allow faster more uniform coverage and does not "Jam the zipper" of the advancing droplet the way the larger conventional surfactants do.



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DIRECTIONS FOR USE

Organo Break is formulated to increase the efficacy of various agricultural chemicals. Formulated to increase wetting and provide uniform coverage. Organo Break will also increase the absorption and translocation of systemic products.

Use the low rate of Organo Break if a uniform film on the plant surface is desired.

Generally Organo Break is added to the spray tank last while the agitator is running. However, some manufacturers labels may recommend addition of surfactant earlier in the mixing sequence.

SUGGESTION FOR USE:

Acaricides, Fungicides & Insecticides: Use 0.12 to 1 liter per 400 liters of spray. The higher rate should be used if recommended on the pesticide manufacturer's label.

Herbicide, Defoliant & Desiccants: Use 0.30 to 2 liters per 400 liters of spray.

ORGANO BREAK

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**Non-Ionic
Spreader
Penetrant**



Active Ingredients

Blended Polydimethylsiloxane and Alkylphenol Ethoxylate 94%
Constituents Ineffective as Spar Adjuvant..... 30%

NOTE: The Seller hereby represents and warrants that the fertilizer shall be manufactured and shipped to purchaser in a form suitable for application to plants, trees and other agricultural crops and hereby further represents and warrants that the fertilizer product shall meet the minimum guaranteed analysis as set forth on the product's identity label.

However, this guarantee does not extend to the use of this product contrary to label's instructions and the buyer assumes the risk of any such use.

Do not use this product contrary to the indications on the product's label to avoid **KEEP OUT OF REACH OF CHILDREN**

WARNING:

Causes temporary eye injury. Do not get in eyes. Wear protective Eye ware or face shield.

GROW  MORE®

15600 New Century Drive, Gardena, CA, U.S.A. 90248

www.growmore.com

- 1 Liter
- 1 Gallon
- 10 Liter
- 12 x 1 Liter
- 4 x 1 Gallon
- 2 x 10 Liter