



TECH NOTE SERIES

BIOSPREAD®

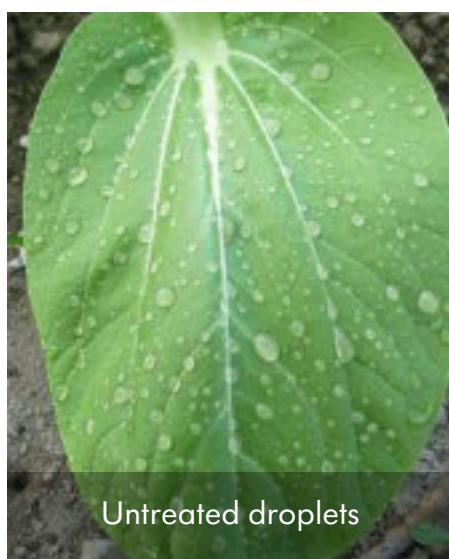
SUPER SPREADER SURFACTANT



TECHNOLOGY FOR AGRICULTURE
BIOSPREAD® - 100% Polyether Modified Trisiloxane
Biodegradable and biocompatible - enhances the
performance of biological and microbial certified agents
Super Spreader & Super Penetrant
BioGro® certified for use in organic production

PRODUCT DESCRIPTION

BIOSPREAD® is a BioGro® certified non ionic Super Spreader from the organomodified trisiloxanes chemical class. Super Spreaders decrease the surface tension of pesticide formulations and thereby reduce the tendency of spray droplets to bounce off plant foliage. This effect allows for better deposition and retention on plant surfaces and maximises the performance of agricultural chemicals.



Untreated droplets



Droplets plus Biospread®

BIOSPREAD® is a biodegradable and biocompatible super spreader for excellent adhesion and retention. In aqueous solutions, it gives super spreading and dramatically reduces surface tension. BIOSPREAD® enhances the stability and performance of biological and microbial products and is certified for use in organic production. Therefore the performance of biological crop protection products can be significantly enhanced by:

- superior wetting of hydrophobic surfaces, in particular leaves and other parts of plants
- better uptake through penetration of cuticular waxes and stomata
- biocompatibility
- bioenhancement

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PHYSICAL PROPERTIES

Viscosity at 25°C	50 - 100 mPas
Density at 20°C	1.02 g/ml
Type	100% non-ionic
Flash point	> 100°C
Surface Tension at 22°C (0,1% w/w in water)	approx. 22 mN/m
Appearance	liquid
Colour	colourless to pale straw

Application

BIOSPREAD® is formulated for use in tank mix applications.

For tank mixtures pesticide manufacturers may suggest a rate of non-ionic surfactant to be used with their product. Follow the corresponding label recommendations when adding BIOSPREAD®.

However, if the pesticide label does not have a specific recommendation for adjuvant use, but does not prohibit its application, BIOSPREAD® should be applied at rates listed below. Careful observation

of spray performance in a trial application with the tank mixture to be sprayed is advised to determine proper and efficient rates.

Directions for Use

PRODUCT	CROP	ml/100 litres	RATE % dilution	
Herbicides	-	50-100	0.05 - 0.1%	
Insecticides & Fungicides	Row crops (including cereal crops)	50-100	0.05 - 0.1%	Add 50 - 100 mls/100 litres of spray mix (0.05 - 0.1%) but not less than 200 ml/ha Use the higher rate for hard to wet plant foliage
	Fruit trees and Vines	50-100	0.05 - 0.1%	
	Vegetable crops	50-100	0.05 - 0.1%	
	Ornamentals	50-100	0.05 - 0.1%	
Growth Regulators	All	50-100	0.05 - 0.1%	
Foliar Fertilisers	All	50-100	0.05 - 0.1%	

Storage Stability

BIOSPREAD® is stable in sealed containers for 4 years.
BIOSPREAD® is not sensitive to freezing.

Packaging

5 Litre
20 Litre drum

