



SURETY[®] MA

Microalgae

Surety[®] MA is a microalgae-based plant fertilizer refined through a bioprocess utilizing UPT[®] Technology. Surety[®] MA is specially formulated to efficiently deliver nutrients derived from Algae Protein Hydrolysate* to improve soils and crops by soil and/or foliar applications alone and in combination with traditional crop inputs and practices.



Technology from  UPT[®]

1.0-0-0 Guaranteed Analysis	
Total Nitrogen (N).....	1.0%
0.2%	Nitrate Nitrogen
0.8%	Other Water Soluble Nitrogen

Derived from Algae Protein Hydrolysate*
Information regarding the contents and levels of metals in this product is available on the internet at:
<http://www.aapfco.org/metals.html>

- Crop Nutrition for soil and foliar applications
- Contains Plant based amino acids
- Activates genes response within 2 hours of application
- Relieves abiotic stress
- Improves performance of traditional crop inputs
- Improves Crop Yields

*Protein Hydrolysate is defined by AAPFCO as the organic material obtained by the hydrolysis of proteins to their constituent amino acids and short polypeptides.

Do not eat, drink, or smoke while handling product. Store in a cool, dry place between 7°C/45°F and 35°C/95°F. Do not expose to direct sunlight. Protect from freezing. AE AGRIBIOLOGICALS NA CORP. makes no representation, warranty, or guarantee other than those contained herein. It is the user's responsibility to determine the suitability and completeness of such information for the user's own particular purpose.

DISTRIBUTED AND GUARANTEED BY:
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Density
8.3 lbs/gal @ 68°F

For emergencies only. Call CHEMTREC: +1 703-741-5970 / 1-800-424-9300

BATCH:



Shake well before use

Vegetable Crops			Rate			
			oz low	oz high	recommended timing	reapplication interval
Root and tuber vegetables	examples: carrot, sweet potato, radish (except potato)	soil	32	64	at planting or transplanting	
		foliar	16	48	7 - 14 days after crop emergence	14 - 28
Potatoes	russet, red, yellow, white	soil	32	64	at planting or transplanting	
		foliar	16	48	7 - 14 days after crop emergence	28
** For small-tuber potatoes (fingerling, petite, etc.) avoid applications during tuber initiation (BBCH 39-41) as this may result in larger sized tubers**						
Bulb vegetables	examples: onions, garlic, green onions	soil	32	64	at planting or transplanting	
		foliar	16	48	7 - 14 days after crop emergence	28
Leafy vegetables	examples: head lettuce, leaf lettuce, cabbage, mustard greens, spinach	foliar	16	64	2-5th true leaf stage (BBCH 12-15)	14 - 28
Brassicas	examples: broccoli, cauliflower, cabbage	soil	32	64	at planting or transplanting	
		foliar	16	64	7 - 14 days after crop emergence	14 - 28
Vegetable legumes	examples: beans like Phaseolus & Vigna, pea; edible podded, succulent shelled, and dried	soil	32	64	at planting or with first fertilizer application	
		foliar	16	64	2-5th true leaf stage (BBCH 12-15)	
Fruiting vegetables	examples: tomato, pepper, eggplant	soil	32	64	at planting or transplanting	
		foliar	16	64	14 days after planting; late budding to early flowering (BBCH 59-63); fruit sizing (BBCH 70)	
Cucurbit vegetables	examples: cucumber, squash, canteloupe, melon, zucchini	soil	32	64	at planting or transplanting	
		foliar	16	64	2-10th true leaf (BBCH 2-10); first flower (BBCH 50); fruit sizing (BBCH 70)	
Tree, Nut, Fruit & Berry Crops						
Citrus	examples: orange, tangerine, mandarin, lemon, lime, grapefruit	soil	32	64	At orchard planting or with first fertilizer application	
		foliar	16	64	shoot development (BBCH 30-35); full budding (BBCH 55); fruit set (BBCH 70)	
Pome fruit	examples: apple, pear	soil	32	64	At orchard planting or with first fertilizer application	
		foliar	16	64	shoot development (BBCH 30-35); full budding (BBCH 55); fruit set (BBCH 70)	
Stone fruit and almonds	examples: cherry, peach, plum, prune, nectarine, almond	soil	32	64	At orchard planting or with first fertilizer application	
		foliar	16	64	shoot development (BBCH 30-35); full budding (BBCH 55); fruit set (BBCH 70)	
Tree nuts	examples: pecan, walnut	soil	32	64	At orchard planting or with first fertilizer application	
		foliar	32	128	fruit set (BBCH 70)	
Strawberry		soil	32	64	At planting or with first fertilizer application	14 - 28
		foliar	16	64	5-10th leaves (BBCH 15-20); bud formation (BBCH 50-55); fruit sizing (BBCH 70)	OR 14 - 28
Berry & small fruit	examples: blackberry, raspberry, blueberry, grape, kiwifruit	soil	32	64	At planting or with first fertilizer application	
		foliar	16	64	shoot development (BBCH 30-35); full budding (BBCH 55); fruit set (BBCH 70)	14 - 28
Row Crops						
Cotton		soil in-furrow	8	16	in-furrow or over seed drill at planting	
		foliar	16	32	with a pre-flower pesticide application	
Rice		foliar	16	32	with application before pannicle formation (BBCH 30); with application between pannicle emergence to grain sizing (BBCH 50-70)	
Corn		soil in-furrow	8	16	in-furrow or over seed drill at planting	
		soil	16	32	at side-dressing or layby application	
Soybean		foliar	16	32	with a pre-flower pesticide application	
		soil in-furrow	8	16	in-furrow or over seed drill at planting	
Oil crops	examples: canola, sunflower	soil	8	16	in-furrow or over seed drill at planting	
		foliar	16	32	preflowering to flower formation (BBCH 30-50)	
Cereal grains	examples: wheat, oats, barley	soil	8	16	in-furrow or over seed drill at planting	
		foliar	16	32	preflowering to flower formation (BBCH 30-50)	
		foliar	16	64	BBCH 2-10, 2-10th true leaf; BBCH 50, first flower; BBCH 70, fruit sizing	
Other Crops						
Herbs & spices	examples: basil, chives, oregano, mint, lavender	soil	32	64	at planting or transplanting	
		foliar	32	64	14 days after establishment	14 - 28
Hydroponic crops			0.25 - 0.5% solution		(example: 1 - 2 qt/100 gal water)	
Cannabis		soil	0.25 - 0.5% solution		(example: 1 - 2 qt/100 gal water)	14 - 28
		foliar	0.25 - 0.5% solution		(example: 1 - 2 qt/100 gal water)	14 - 28
Turfgrass	examples: sod, lawns, greens, fairways, tee boxes	1000ft2	1	2		14 - 28
			32	64	ideal timing is during active turf growth or prior to stress events or dormancy	14 - 28
Plant Stress Mitigation						
Plant stressors	examples: drought, heat, transplanting, deleterious environmental conditions	soil	32	64	2 - 5 days prior to anticipated stress event	
		foliar	32	64	2 - 5 days prior to anticipated stress event	

Surety® MA applied with standard fertilizer programs are ideal timings.

Surety® MA is highly compatible with other agricultural products (pesticides, fertilizers, etc.) and Surety applications can be timed with with other planned product applications. Multiple applications at the lower recommended rates may provide the greatest crop benefit over single applications at the higher recommended rates.