



Valena™ FLOW is an innovative foliar plant growth technology that contains a distinctive combination of patented 1,3- $\beta$ -glucan derived from Kemin's proprietary strain of unicellular microalgae *Euglena gracilis* and enriched with zinc micronutrient derived from zinc oxide. Designed as a flowable suspension, this formula aims to help increase plant growth and combat zinc deficiency. Feeding the crops with Valena FLOW through foliar spray applications when the first visible leaves appear can help enhance fruit and vegetable quality while averting potential yield loss. We recommend incorporating Valena FLOW into the nutritional program of all crops early in the active growing stage, setting a solid foundation for enhanced plant growth development.

### GUARANTEED ANALYSIS

Zinc (Zn) ..... 2.0%

Derived from Zinc Oxide

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

#### ACTIVE INGREDIENTS

20% ..... 1,3 beta-glucan (Derived from the fermentation of *Euglena gracilis*)

#### INERT INGREDIENTS

80%..... Total Other Ingredients (inert as non-plant food ingredients)

Purpose: Beta-glucan may increase nutrient uptake

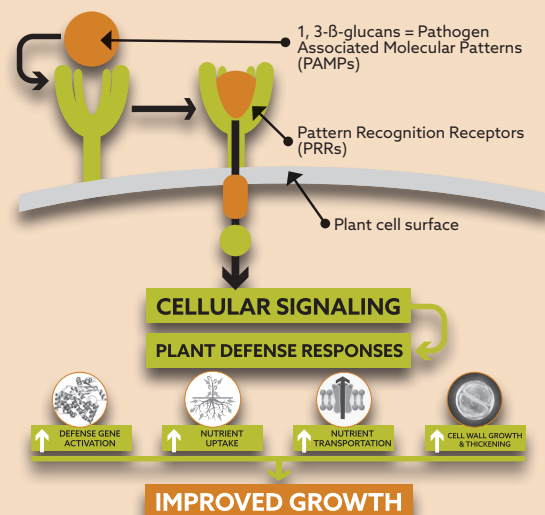
### PRODUCT FEATURES

- Liquid flowable suspension
- Foliar spray application
- Designed to be used as part of a nutritional program
- Compatible with other crop inputs
- Biodegradable
- No phytotoxicity when used at label rate.

### THE KEMIN DIFFERENCE

- Kemin utilizes its exclusive strain of unicellular microalgae, *Euglena gracilis*, cultivated under strict environmental control to ensure the production of consistent and high-quality material.
- Our product guarantees a particle size of less than 10 $\mu$ m, optimizing leaf contact and absorption for superior performance.

### MODE OF ACTION FOLIAR UPTAKE



### PRODUCT BENEFITS

WHEN USED AS DIRECTED, VALENA FLOW HELPS:



Prevent zinc deficiency



Enhance the nutrient uptake efficiency



Get higher total plant biomass



Increase root growth, development and biomass



Increase fruit and vegetable marketable yield and total mass yield



In the growth of enhanced plants quality

# NUTRITIONAL PROGRAM DIRECTIONS FOR USE



## MIXING INSTRUCTIONS

- Shake vigorously well before use
- Valena FLOW is a concentrate and must be diluted in water before use
- Can be used alone or tank-mixed with other products, such as fertilizers and pesticides.

## APPLICATION METHOD - FOLIAR APPLICATIONS ONLY

- Standard spray equipment such as ground sprayer. Flush all parts of the sprayer with clean water, including the pump, hose and nozzles, several times before and after using Valena FLOW
- Spray the diluted solution thoroughly onto the foliage of growing crops to allow for superior coverage and absorption.

## APPLICATION RATES

Rates may vary according to crop variety and stage of growth, climate and general agronomic conditions.

Crop Type	Application Rates (quarts/acre)	Timing	Application Frequency (For best results)
GREENHOUSE, NURSERY, ORNAMENTALS	0.5-1	Apply from the first visible leaf and throughout the cycle	Every 20 days
TREE FRUITS (POME AND STONE FRUITS)	0.5-1.5	Apply from shoot development to end of flowering	Every 7-10 days
FIELD, ROW CROPS	0.5-1.5	Apply from 3 <sup>rd</sup> -4 <sup>th</sup> visible leaf throughout the cycle	Every 15-20 days
BERRIES	0.5-1	Apply throughout the growing cycle.	Every 15-20 days
GRAPES/VINE	0.5-1.5	Apply from sprouting to fruit set (in conjunction with standard pesticide treatments).	Every 10-15 days
OTHER CROPS	0.25-1.5	Apply from first visible leaf to end of flowering	Every 10-15 days

## RECOMMENDED TIMING

- For optimal outcomes, apply to actively growing plants and crops with young leaves:
  - For new seedlings: Apply from the first visible leaf (2-4)
  - For established crops (berries, vines and tree): From shoot development
  - Use early and at the beginning of each growth stage
- Avoid spraying under hot conditions (>90 °f or 32 °C), or when directly exposed to sunlight
- Avoid application if heavy rainfall is anticipated.

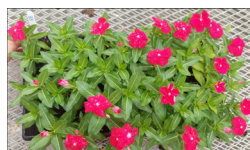


### NET CONTENTS:

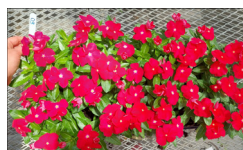
Net Volume: 2.5 Gallons (9.5 Liters) @ 68 °F/20 °C  
Net Weight: 23 lb (10.45 kg)  
Keep stored above 32°F (0°C).



Negative Control



One application of Valena FLOW  
(0.104 qt/ac)



Two applications of Valena FLOW  
(0.104 qt/ac)

Valena FLOW provides stunning impact on young greenhouse stock plugs even at lower rates.

# KEMIN®

Compelled by Curiosity™

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**GREENHOUSE TRIAL DESIGN:** Seeds sown in soil-less media in 72-square, deep well-plug trays. All plants were watered daily and fertilized weekly beginning ~ 4-6 weeks after germination • **TREATMENT RATES:** Multiple rate of Valena FLOW from 0.104 qt/ac to 2.4 qt/ac • **TIMING:** First application at 2-6 true leaves. Then 2 two weeks after the first application • **APPLICATION METHOD:** Foliar spray with grower standard 1-gallon pressure-based spray applicator. (Ref: SD 23-26217)

