



SIL-GUARD® (0-2-5)

With 7% POTASSIUM SILICATE & 2% PHOSPHITE

- Improves Plant's Turgidity
- Enhances Crop Quality and Vigor
- Increases Plant's Resistance to Disease

GUARANTEED ANALYSIS:

Available Phosphate (P₂O₅)..... 2%
 Soluble Potash (K₂O)..... 5%
 Derived From: Potassium Silicate, Potassium Carbonate, Potassium Phosphite, Potassium Humate, Phosphoric Acid

SOIL AMENDING INGREDIENTS

Humic Acid (derived from Leonardite) 2%
 Purpose: For soil conditioning

CONTAINS BENEFICIAL SUBSTANCES

Silica (SiO₂)..... 7%

TECHNICAL DATA:

Weight per gallon 9 lbs.
 Weight per liter 1.08 kg
 pH @ 20 deg. C 12

PRODUCT DESCRIPTION:

Sil-Guard is a liquid supplement that contains soluble potassium and soluble silicate, two important elements to help strengthen plant cell walls. Silica hardens the leaf and helps strengthen the xylem vessels (stem) of plants. This is especially important during times of high transpiration which will reduce water loss and environmental stress in both plants and cuttings. Potassium silicate will significantly reduce the effects of salt stress on roots, stems and leaves of plants. Sil-Guard also contains Potassium Phosphite which promotes plant health and increases the plant's resistance to disease and pests. Potassium builds carbohydrate reserves. Nutrient uptake is increased through the leaf and root tissue with the addition of humic acid. It can be applied as a foliar application on all plant varieties. A continuous source of soluble silicate is very important to enhance the plants' resistance to sucking insects and promotes the natural defense to fungal diseases.

APPLICATION RECOMMENDATIONS:

Sil-Guard is used at the rate of 1% solution (1 gal. / 100 gal of water). One gallon of Sil-Guard will treat approximately one acre of field grown crops. Apply every 2 to 3 weeks throughout the season. Application with low volume sprayers is not recommended. Sil-Guard does not have to be watered in. However, you can water it in lightly without affecting the results.

MIXING:

Dilute at the rate of 1 to 100 in water if possible. Put half the water in the tank and add Sil-Guard. Sil-Guard is an alkaline material with a pH of 12 and should NOT be mixed with acidic or acid-producing chemicals.

The following mixing procedure should be followed after Sil-

- Strengthens Outer Cell Wall
- Slows Down Water Transpiration Rate
- Boosts Chlorophyll Under Low Light

Guard has been diluted with appropriate amounts of water. Add products to mix in this order: 1. wettable powders, 2. flowables, 3. water solubles, 4. surfactants, 5. emulsifiable concentrates. Be sure to agitate during each addition. Be sure each product is mixed well before adding the next. Apply all of mixture in same day. Always use a jar test before mixing Sil-Guard pesticides and fertilizers in your tank.

Sil-Guard PPM Rates						
Fluid Ounces of Sil-Guard per Gal of Stock Tank Mix						
PPM SiO ₂	25	50	75	100	150	200
1:500	19	38	57	76	114	X
1:300	11	22	34	44	66	88
1:200	7.5	15	23	30	45	60
1:100	4	7.5	11	16	24	32
1:50	2	4	5.6	8	12	16

Nursery Applications		
Application	Rate	Notes
Containerized and Field Grown Crops, (including but not limited to): Deciduous and Evergreen Trees, Foliage, Ornamental Grasses, Perennials, Tropicals, Woody Ornamentals	Foliar Spray: 2 - 4 qt per acre. Apply with a minimum of 100 gallons finished mix per acre. (4.7 - 9 L per Hectare)	Repeat the application every 30 days or as needed. Apply after transplanting
	Continuous Feed: 6 oz per 100 gallons of water (50 ml per 100 L water)	
	Soil Application: 2 - 4 qt. per acre. (4.7 - 9 L per hectare)	

Greenhouse Foliar Spray Recommendation		
Application	Rate	Notes
For All Types of Greenhouse Crops	Transplanting: Mix 3 oz in 2.5 gallons of water (88 ml in 10 L water)	Soak plug tray or foliar spray after transplanting
	Propagation: 1 oz in 2.5 gallons of water (30 ml in 10 L water)	Apply at 2 nd leaf stage, and then every 10 - 14 day intervals
	Maintenance: 0.3 - 1 ounce in 2.5 gal of water (9 - 30 ml in 10 L water)	Apply at 10 - 14 day intervals to supplement nutrient requirements

Crop Application Recommendations

Crop	Rate	Application Timing / Intervals
Bananas	2 - 4 quarts per acre (4.7-9 liters per hectare)	Apply every 2 - 4 weeks throughout growing season. Do not apply during flowering. Use tissue tests to determine the frequency of applications.
Berries , such as (but not limited to): Blueberry, Blackberry, Raspberry, Strawberry		
Bulb Vegetables , such as (but not limited to): Onions, Garlic, Shallots		
Citrus , such as (but not limited to): Grapefruit, Lemons, Limes, Oranges, Pomelo, Tangelo, Tangerines		
Cole Crops , such as (but not limited to): Broccoli, Cauliflower, Cabbage, Brussels Sprouts, Collards		
Cucurbits , such as (but not limited to): Cucumber, Cantaloupe, Squash, Pumpkin, Melons		
Field Crops , such as (but not limited to): Barley, Corn, Oats, Peanut, Rice, Soybean, Sugar Beet and Wheat.		
Fruiting Vegetables , such as (but not limited to): Peppers, Tomato, Eggplant, Okra, Tomatillo		
Grapes , such as (but not limited to): Wine and Table Grapes		
Grasses Grown for Seed, Sod Production, Pasture, Forage and Alfalfa		
Herbs and Spices , such as (but not limited to): Coriander, Basil, Chives, Dill, Rosemary, Sage & Mint		
Leafy Vegetables , such as (but not limited to): Lettuce, Celery, Spinach, Parsley, Radicchio		
Legumes and Pulses , such as (but not limited to): Beans, Green Beans, Snap Beans, Lentils, Peas		
Root, Tuber and Corm Vegetables , such as (but not limited to): Carrot, Potato, Sweet Potato, Beets, Ginger, Radish, Ginseng, Turnip		
Tree Fruits and Nuts , such as (but not limited to): Almond, Apple, Apricot, Cacao, Cherry, Coffee, Filbert, Nectarine, Olive, Peach, Pear, Pecan, Pistachio, Plum, Prune, Quince and Walnut		
Tropical / Sub Tropical Fruits , such as (but not limited to): Avocados, Coffee, Dragon Fruit, Durian, Mangos, Papaya, Pineapples, Rubber Trees		

Ferns

Plant Type	Application Rate	Frequency / Notes
Ferns	*1 - 2 quarts per acre (2.3 - 4.6 liters per hectare)	Apply after ferns are developed. Repeat every 30 days. <u>*Do not mix with other technical materials</u>

FIRST AID

IF SWALLOWED:	Call a poison center or doctor if you feel unwell: Rinse mouth.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF ON SKIN:	Remove contaminated clothing and wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
IF INHALED:	Call a poison center or doctor if you feel unwell.
You may also contact 1-800-992-5994 day or night for emergency treatment information. If medical advice is needed, have product container or label at hand (P101), Keep out of reach of children (P102), Read label before use (P103).	
STORAGE: Keep container tightly closed. May be stored in unheated area, but keep from freezing. Store in areas inaccessible to children and pets.	
DISPOSAL: Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse container.	

The following precautionary statements and pictograms are based on The Globally harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



WARNING

H302 Harmful if Swallowed
H315 Causes Skin Irritation
H319 Causes Serious Eye Irritation
H335 May Cause Respiratory Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. **IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

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