



# MetaGrow™ Si-Sol

## Silica Solubilizing Microbe Inoculant

**Product Purpose:** Amend the soil to promote plant growth

**Product Claims:** Increase plant silica uptake and content. Increased plant silica content can support plant immune system and stress resistance (heat, drought, salt, UV), strengthen plant tissues which can reduce lodging, can increase plant water use efficiency through reduced non-transpiration leaf water loss and loss due to root osmotic pressure from soil salts. May reduce plant uptake of some non-nutrient metals, e.g. Aluminum. Can increase fruit skin strength and resiliency which may reduce fruit split. Can increase Phosphorus availability when Aluminum competes for plant uptake. **Supplies beneficial microorganisms to soils and growing media. Aids the proliferation of soil microorganisms.** Encourages vigorous root growth. Improves soil structure and porosity – creating a better plant root environment. Improves Cation Exchange Capacity (CEC) of soils. Supplies organic matter.

**MAY TANK MIX WITH FERTILIZERS AND OTHER BIOLOGICAL PRODUCTS - CHECK COMPATIBILITY. STORE OUT OF DIRECT SUN UNDER 100°F (38°C). CHECK COMPATIBILITY BEFORE MIXING WITH PESTICIDES OR FUNGICIDES.**

**Directions for use:** MetaGrow™ Si-Sol can be applied as a seed treatment, in transplant water, in furrow over the seed line; sprayed on a berm or “Y” dropped; through the irrigation systems, or foliar spray. **Seed treatment:** 1 pint (16oz) - 1 quart (32oz)/100wt seed – tumble until moisture is absorbed. **Transplant Water or In Furrow Over Seed Line:** 1-4 gal/acre direct over seed lines (direct contact best) with microbe foods (e.g. MetaGrow MFOOD, Fish Hydrolysate, etc.), **Sprayed on Berm or “Y” Dropped:** 2-4 gal/acre – dilute at least 5:1 or as needed for coverage; **Irrigation Injection:** 2 gal/acre/application (monthly during irrigation season or at crop growth phase change) – apply at middle of the set so soil is pre-wetted and so after injection is completed there is additional water applied to push the material into the soil; **Foliar:** 1-3gal/acre depending on plant size, i.e. small bush vs large tree (make sure apply with microbe foods e.g. MetaGrow MFOOD, Fish Hydrolysate, etc.) dilute sufficient for coverage, Can mix with other biological. See product filter mesh size at the bottom of the label for application method compatibility. Use rates can vary from 16oz per acre up to 40 gallons per acre, depending on crop, the number of applications, and application timing.

**This product meets the Program Standards as set forth by the United States Department of Agriculture National Organic Program (NOP) 7 CFR part 205**

**CAUTION NOT FOR HUMAN CONSUMPTION.** MAY BE HARMFUL IF SWALLOWED. MAY CAUSE EYE AND RESPIRATORY IRRITATION. MAY CAUSE INTESTINAL DISTRESS IF SWALLOWED. Do not breathe spray or mist. Avoid contact with eyes. Keep container closed when not in use. **FIRST AID:** If swallowed, call a physician immediately if severe cramping occurs. Do not induce vomiting unless directed by medical personnel. If in eyes, rinse with water for at least 15 minutes. Remove contact lens after first 5 minutes. If inhaled, move person to fresh air. If on skin, wash thoroughly. If irritation persists for any exposure, call a physician. **KEEP OUT OF REACH OF CHILDREN.**

**LIMITED WARRANTY** ArkBiome, LLC makes no implied or express warranties other than that the Product is consistent with the label's derivation statement and Guaranteed Analysis and is reasonably fit for the purpose set forth on the label when used with appropriate application rates for the soil and seasonal conditions where applied. Because a purchaser's handling, rate, time, and place of application are not within the control of ArkBiome, LLC our liability to purchasers of this product is LIMITED to replacement of any Product not conforming to this Limited Warranty.

**Guaranteed by and Manufactured by: ArkBiome, 900 Rd Y, Bladen NE 68926 (916) 284-9706**

Net Contents: 275 US Gallons (1041Ltrs)  
Version date 12/01/25



**BIN #: 1001Y Weight per gallon 8.4 lbs (at 68°F)**  
Filter Size 100Mesh (149 Micron) SDS at [www.sgs-ag.com](http://www.sgs-ag.com)