

Typical Properties

PRODUCT TYPE: Agricultural Crop Biostimulant / Growth Supplement
Registration Number 2025157S Fertilizers Act

INGREDIENTS:
Active Ingredients (%): Chitosan (1%), *Yucca schidigera* extract (6%)

PHYSICAL PROPERTIES:

Physical State:	Viscous Liquid
Appearance:	Amber to Dark Brown
Odor:	Sweet
pH:	2.0 - 2.5
Specific Gravity:	1.014 - 1.050
Density:	1.01 - 1.05 g/cm ³ (8.45 - 8.75 lbs/gallon)
Solubility, water:	soluble in aqueous solutions with a pH below 5.0
Freezing Point:	0 °C (32 °F)

GENERAL INFORMATION:

Chitosan's benefits in various agricultural applications and is extensively well documented in the literature. Row crops, cereals, pulses, root crops, produce, nut crops, pome fruit, horticultural crops, turf, hemp, forage have all benefitted from chitosan application. Chitosan has been shown to positively affect a number of aspects of plant health, vigor, productivity, germination and including but not limited to:

- Influencing transpiration control
- Increasing chlorophyll content
- Increasing photosynthetic output
- Increasing root mass
- Increasing yield
- Improving Brix ratios
- Stimulating production of plant secondary metabolites which protect against abiotic stresses
- Priming seeds to improve germination rate and make seedlings more resistant to abiotic stresses

GENERAL MIXING INSTRUCTIONS:

Follow manufacturer's guidelines for cleaning spray treatment equipment prior to mixing. Fill tank with water and add all other spray treatment ingredients according to product labels. This product may be tank mixed with pesticides. In some cases, tank mixing with pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact the company responsible for the pest control product before applying any tank mix. A jar test is recommended before mixing with other fertilizers or pesticides. Buffer pH to 5.0 or below before adding **Stimul-8**. Organisan Corporation recommends citric acid or vinegar as suitable acidifiers. Thoroughly mix to resuspend any sediment before using this product. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. Add **Stimul-8** last and mix completely to fully incorporate with the other ingredients. It is always recommended a compatibility test be performed on all first time combinations. (Excessive agitation may lead to foaming of spray solution).

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Store in original containers only in cool areas at 5 - 25°C. **Stimul-8** is stable in unopened containers for a minimum of 2 years. Avoid repetitive freeze/ thaw cycles. Keep away from incompatible substances. Keep away from metals. Do not store in metal containers. Dispose of contents/containers in accordance with applicable federal, provincial and local regulations.

CONTAINER DISPOSAL:

Triple rinse (or equivalent) and add rinsate to treatment tank. Do not reuse empty container. Recycling decontaminated containers is the best disposal option. Cleanfarms (www.cleanfarms.ca), Agrirécup (agrireкуп.ca) and Product Care (www.productcare.org) all operate nationwide programs. Decontaminated containers may also be disposed of in a sanitary landfill according to provincial and local statutes.

Thoroughly clean all brushes, nozzles and other application equipment with water after use. Metal or metal alloy containers other than stainless steel are not recommended for use with this product.

Refer to product SDS for addition safety and handling information.