

# Spectra Max Tech™

## Spectra Max Tech™ MANUFACTURING CONCENTRATE

### Principal Functioning Agents

Sodium polyacrylate-citrophosphate glycerol complex with siloxane.....	18.0%
Ammoniated salt solution as formulation aid* .....	82.0%
<b>Total.....</b>	<b>100.0%</b>

All ingredients are exempt from the requirements of a tolerance as specified in 40 CFR 180.  
\* This product contains equivalent to 1.2 pounds of ammonium sulfate per gallon.



### KEEP OUT OF REACH OF CHILDREN WARNING

#### Hazard Statements

- Causes serious eye irritation.
- Causes skin irritation.

#### Precautionary Statements

- Wash thoroughly after handling. Product is very soluble in water and can be washed off easily.
- Wear protective gloves and eye/face protection.

#### First Aid

**If in Eyes:** Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. If eye irritation persists, get medical attention.

**If Swallowed:** Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. If you feel unwell, call a poison control center or physician immediately for treatment advice.

**If Inhaled:** Move person to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. If you feel unwell, call a poison control center or physician for further treatment advice.

**If on Skin or Clothing:** Rinse skin immediately with plenty of soap and water for 15 to 20 minutes. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse.

#### Storage, Disposal & Spill

Do not contaminate water sources, food, or feed by storage, cleaning of equipment or disposal of wastewaters.

**Storage:** Keep from freezing. Store above 32°F. Avoid prolonged storage. Spectra Max Tech contains a silicone defoamer which will separate over time. Prolonged storage in bulk will cause uneven layers of defoamer product. Defoamer separation in the packaged product is usually insignificant and redispersible. Store in a closed container. Store away from heat or open flame and oxidizing materials.

**Disposal:** Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent) during mixing and loading. Returnable mini-bulk tanks should be rinsed and dried thoroughly. If the tank has reached the end of its usable life, dispose according to local, state and federal regulations. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit [www.agrecycling.org](http://www.agrecycling.org). Dispose of contents and container in accordance with local and national regulations.

**Spill:** In the event of a major spill, fire or other emergency, call CHEMTREC at (800) 424-9300.

### For Manufacturing Use Only – Do Not Mix In Spray Tank

#### General Information

Spectra Max Tech is a manufacturing concentrate that contains an integrated water conditioning system with an optimized rate of viscosity modifiers.

Spectra Max Tech is formulated to provide a labor and material cost savings for local facilities to use their own source of dry ammonium sulfate and water to formulate a finished tank mix adjuvant containing liquid AMS Water Conditioning Agent / Drift Reduction Agent / Deposition Aid / Antifoaming Agent.

Following the supplemental Formulating and Packaging Guidelines, the finished blend will deliver 8.5 pounds of liquid ammonium sulfate-based water conditioning agent per 2.5 gallons of finished blend adjuvant that enhances herbicide performance by modifying the pH and water hardness of the spray solution.

The ammoniacal nitrogen in the finished blend promotes herbicide (such as glyphosate) uptake in agricultural applications.

The finished blend will contain a drift suppressing agent that reduces off-target drift and a deposition aid that contains emollients to keep the spray deposit moist for maximum absorption and a pH stable antifoam which helps control foaming during tank mixing.

**IMPORTANT:** It is recommended that local AMS sources be tested for compatibility prior to conducting large scale formulations. Your KALO representative can provide this service.

#### Compatible With All Glyphosates, Glufosinates and 2,4-D Herbicides

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you don't understand the label, find someone to explain it to you in detail.)*



Spectra Max Tech is a trademark of KALO, Inc.

#### CONDITIONS OF SALE, LIMITED WARRANTY, AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale – Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded. The directions of this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of KALO, Inc., the manufacturer or seller. In addition, failure to follow label directions may cause injury to crops, animals, workers or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind express or implied concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law. The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at KALO, Inc.'s election, one of the following:

1. Refund of the purchase price paid by buyer or user for product purchased, or,
2. Replacement of the product used.

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company, the manufacturer and seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.



**KALO, Inc.**

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# PRODUCT INFORMATION



## Spectra Max Tech™

### GUIDELINES FOR HANDLING, STORAGE, FORMULATING AND PACKAGING

#### VESSEL INFORMATION

- Receive into a clean dry tank or holding vessel.
- Vessel should be free from any oils or surfactants which may not be soluble in SPECTRA MAX TECH.
- Avoid contaminating with other materials.
- High density plastic or stainless-steel storage tanks are preferred.
- Avoid mild steel tanks as iron is reactive with certain components.
- Avoid using holding vessels which have contained materials of extreme pH (high or low) as this will negatively affect the polymer system.

#### HANDLING

- It is recommended to use gloves and eye protection when handling this product.
- Product is very soluble in water and can be washed off easily.
- The Manufacturing Concentrate contains a pre-swelled polyacrylamide polymer that will exhibit stringy characteristics and will make surfaces slippery.
- Use caution when handling and rinse surfaces thoroughly with water to remove residue.
- Avoid excessive pumping, such as continuous recirculation of the concentrate, as this negatively affects the polymer performance.

#### STORAGE

- Avoid freezing or extremely cold temperatures for extended periods.
- Avoid prolonged storage in bulk. SPECTRA MAX TECH contains a silicone defoamer which will separate over time. Prolonged storage in bulk will cause uneven layers of defoamer product with significantly higher than desired levels of defoamer at the top of the tank.
- Defoamer separation in the packaged product is usually manageable and re-dispersible in final package size.

#### FORMULATING AND PACKAGING

- SPECTRA MAX TECH is designed to be used as a manufacturing concentrate only and is NOT intended to be packaged without further formulating.
- SPECTRA MAX TECH is designed to be blended into a concentrated Ammonium Sulfate solution.
- Final % AMS content should NOT exceed 34% in the finished product.
- Recommended use level of SPECTRA MAX TECH in finished product is 20%. This delivers 4% AMS into the finished product.
- Finished blend should be blended long enough to fully hydrate the polymer concentrate.
- Recirculation pumps may be used to enhance solution but DO NOT TURN OVER more than once as this affects the efficiency of the polymer activity.
- The finished product should be filtered prior to packaging using a 5 to 100-micron filter (the smaller micron size is preferred). This is to prevent trash (collected from transportation, internal transferring from holding, and formulating) from being packaged and to filter out any non-dispersed defoamer which might have escaped initial filtering.
- It is normal for small amounts of gelled polymer and white defoamer to collect in the final filtering.
- An additional final polishing filter of similar porosity should be used immediately prior to packaging to result in a clear high-quality product.
- Finished packaging should be polyethylene or polypropylene types.
- Avoid metal packaging containers as the AMS as well as other components will react with iron and cause corrosion as well as reduction of activity of the blend.

#### RECOMMENDED FIELD USE RATES

- 2.5 gallons per 100 gallons spray mix.

**FOR MANUFACTURING USE ONLY - DO NOT MIX IN SPRAY TANK  
COMPATIBLE WITH ALL GLYPHOSATES, GLUFOSINATES AND 2,4-D HERBICIDES**

#### FORMULATION RECOMMENDATIONS

COMPONENT	% wt/wt	LBS/GALLONS
Water	49.50%	4.975 lbs
AMS Powder	30.50%	3.065 lbs
Spectra Max Tech	20.00%	2.010 lbs
Total	100%	10.050 lbs

#### LABEL RECOMMENDATIONS

Using the formulation recommendations in chart to the left, the below label recommendations are as follows:

Ammonium Sulfate	34%
Glycerol Acid (citro phosphate complex and siloxane)	3%
Inert Ingredients	63%
Total	100%



**KALO**

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Important: This information is not a substitute for the label. Always read and follow label instructions.

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