

# Kovar Condition CS<sup>®</sup>

Water Conditioner | ETA Nonionic Surfactant | Humectant

## PRINCIPAL FUNCTIONING AGENTS

Alcohol ethoxylated phosphate ester;  
Amines, tallow alkyl, ethoxylated;  
Citric acid .....56.4%  
Constituents ineffective  
as a spray adjuvant.....43.6%

## Product Properties:

**Weight:** 9.76 lb/gal  
**pH:** 2.5–3.5  
**Specific Gravity:** 1.16–1.17  
**Flashpoint:** >200.0 °F (>93.3°C)  
**Appearance:** Clear pale yellow liquid  
**Odour:** Fatty

## KEEP OUT OF THE REACH OF CHILDREN



### WARNING

Causes skin irritation.  
Causes eye irritation.

First Aid: Please see SDS sheet for more information, call (800) 622-4877 or visit us online at [www.advancedadjuvants.com](http://www.advancedadjuvants.com)

ALL INFORMATION CONTAINED HEREIN IS PROVIDED "AS-IS", AND ADVANCED ADJUVANTS BY NACHURS ALPINE SOLUTIONS LLC ("ADVANCED ADJUVANTS") HEREBY EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES WITH RESPECT TO THE INFORMATION CONTAINED HEREIN, WHETHER EXPRESS OR IMPLIED BY LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION ANY WARRANTY OF COMPLETENESS OR ACCURACY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR USE OR WARRANTY OF MERCHANTABILITY. ADVANCED ADJUVANTS SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES ARISING OUT OF USE OF THE INFORMATION CONTAINED HEREIN OR ANY SERVICES PROVIDED BY ADVANCED ADJUVANTS RELATED THERETO."

"Advanced Adjuvants by Nachurs Alpine Solutions" and "Kovar Condition CS" are registered trademarks of Nachurs Alpine Solutions<sup>®</sup>.

© 2025 Advanced Adjuvants by Nachurs Alpine Solutions. All rights reserved.

## TERMS AND CONDITIONS OF USE

THE PRESENTATION SET FORTH HEREIN IS CONFIDENTIAL, IS FOR INFORMATION ONLY, AND IS NOT INTENDED FOR DISTRIBUTION. THE TRIALS DESCRIBED IN THIS PRESENTATION ARE OF AN EXPERIMENTAL NATURE AND MAY INCLUDE TANK MIXES THAT FALL OUTSIDE LABEL GUIDELINES. THIS PRESENTATION IS NOT INTENDED TO REPLACE PRODUCT LABELS OR THE INDIVIDUALIZED RECOMMENDATION OF A CROP ADVISOR. ALWAYS READ THE PRODUCT LABEL FOR COMPLETE INSTRUCTIONS AND PROPER USAGE.

[advancedadjuvants.com](http://advancedadjuvants.com)

800-622-4877 x233

## GENERAL INFORMATION

Kovar Condition CS is a non-ammonium sulfate water conditioning adjuvant with a built-in Ethoxylated Tallow Amine (ETA), nonionic surfactant and humectant. By working in unison, the proprietary surfactant in Kovar Condition CS decreases the water droplet tension to increase the leaf surface area contact with the herbicide and takes full advantage of the unique water conditioning agent to ensure top performance of the herbicide even when used with hard water.

As an alternative to ammonium sulphate, AMADS conditions the water to alleviate the antagonistic effects of hard water mineral cations such as Mg, Ca and Na. **Kovar Condition CS** enables better performance of weak acid herbicides especially glyphosate, glufosinate, 2,4-D, and paraquat.

NDSU and UMN Weed Scientists 2024 research has shown Ethoxylated tallow amine (ETA) surfactant is more effective with glyphosate, than nonionic surfactant with glyphosate.

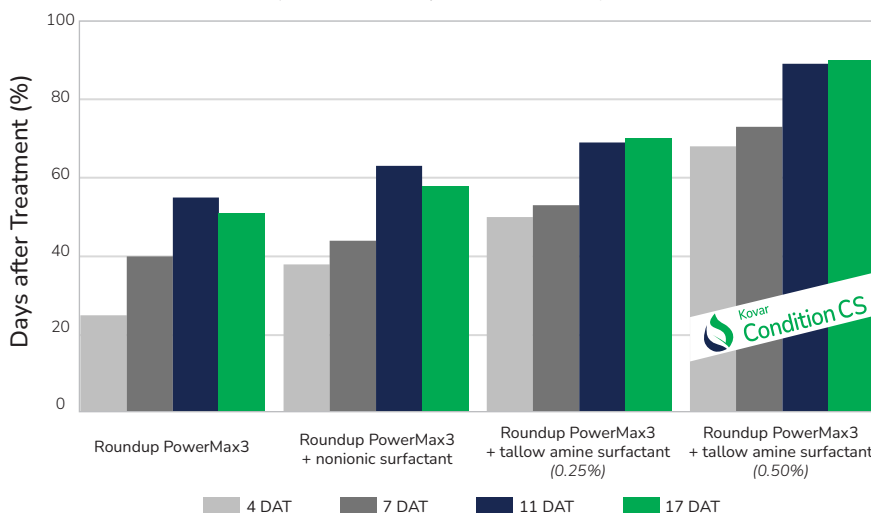
The research indicates tallow amine surfactant, at 0.5% v/v, mixed with glyphosate controlled kochia better than nonionic surfactant with glyphosate.

## DIRECTIONS FOR USE

Kovar Condition CS is registered to be used at a rate of 32–128 oz. per 100 gallons of spray mixture. Higher rates may be necessary with hard water sources. **Do not use this product at rates in excess of 5% of the finished spray volume.**

Review both the adjuvant and herbicide label before use. Recommendations and restrictions on the pesticide label take precedence over any recommendations presented on this document. Kovar Condition CS may be applied by ground, air or other spray equipment that is listed on the herbicide label.

*Kochia Control at (4, 7, 11, 17 "Day after Treatment") for Selected Treatments*



Picture and treatment experiment credit: Peters, T. J., & Aberle, A. (2024). Kochia Control with Roundup PowerMax3 and Surfactants (p. 2). North Dakota State University & University of Minnesota.