

December 3rd 2025

Wilbur-Ellis Updates Herbicides & Adjuvants for Dummies

Who Am I?

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Today's Topics

- **Wilbur-Ellis Updates**
- **Herbicide & Adjuvants for Dummies**
 - **Labels**
 - **Projects**
 - **Forest Practice Rules**

Wilbur-Ellis Updates

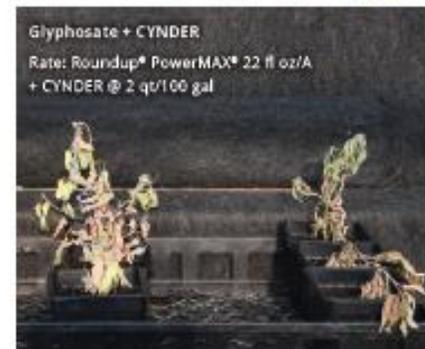
Cynder

- Water quality product to add with Glyphosate, 2,4-D, Imazapyr and other Post Emergents.
- Tallow-amine
- Application rates will be 1-2 quarts per acre when adding to Gly or Imazapyr.



CYNDER® enhances herbicide effectiveness with a unique blend of tallow-amine surfactants and water conditioners. It accelerates weed burndown when used with glyphosate, paraquat, dicamba, and 2,4-D, recommended at 1-4 qt/100 depending on water hardness. With the combination of tallow-amine surfactants and a citric acid water conditioning system, CYNDER works on hard to control weeds with this proven technology.

12 DAYS AFTER TREATMENT
Common Lambsquarters (left) and Kochia (right)



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CYNDER BENEFITS

-  Tallow-Amine Surfactants
-  Heats Up Herbicide Activity
-  Overcomes Hard Water Antagonism
-  Excellent Crop Safety
-  Improves Herbicide Translocation

SCAN THE CODE FOR MORE INFORMATION ON CYNDER



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SUPER SPREAD® MSO

Super Spread MSO

- Fazing out RNA Timber and going fully with Super Spread MSO
- Is 85-15 verses RNA Timber and other cheap MSOs at 90-10. Seed oil to emulsifier/surfactant

SUPER SPREAD® MSO – Modified Vegetable Oil



SUPER SPREAD MSO is a 100% modified vegetable oil/surfactant blend that aids in penetration of the spray through the waxy cuticle. SUPER SPREAD MSO is a multifunctional spray concentrate with wetting and penetrating properties.

Benefits:

- Excellent wetting and penetrating
- Improves transportation through waxy cuticle
- Consistent and stable emulsion
- Excellent crop tolerance
- Low rates per acre
- Use in place of crop oil concentrate

General Information

SUPER SPREAD MSO may be used in place of nonionic surfactants or crop oil concentrates in liquid spray mixtures. When used as directed, SUPER SPREAD MSO maximizes the activity and effectiveness of certain postemergent herbicides. Therefore, care must be taken in treating sensitive crops during periods when plants are subjected to drought stress, high temperatures and high humidity.

Use Directions

Rates of SUPER SPREAD MSO may vary with the conditions of application. Always add SUPER SPREAD MSO last to the spray mixture while providing good agitation.

AQUATICS: (NOT FOR AQUATIC USE IN WASHINGTON STATE)
SUPER SPREAD MSO may be used as an additive with aquatically-labeled pesticides. The use rates for SUPER SPREAD MSO should follow the recommended adjuvant rate that is specified on the pesticide product label. If there is no recommended adjuvant rate on the pesticide label, SUPER SPREAD MSO should be used at the rate of 1 to 2 pints per acre in 5 to 30 gallons of water. For volumes greater than 30 gallons of water, do not exceed a rate of 1% v/v. For handgun or backpack applications, do not exceed a rate of 5% v/v.

Defoliants: Use ½ to 2 pints per acre of SUPER SPREAD MSO in combination with defoliants.

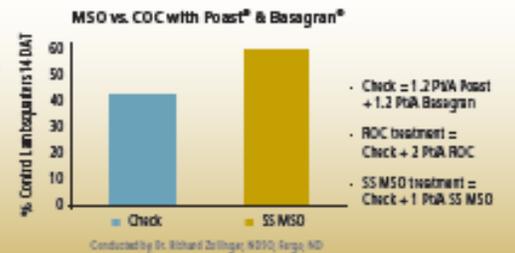
Herbicides: Use 1 to 4 pints of SUPER SPREAD MSO per acre. The addition of a nitrogen (N) fertilizer such as 28% to 32% N solution, ammonium sulfate or AMS replacement products, such as BRONC® MAX may be required to improve control under extreme environmental conditions or to satisfy certain pesticide label requirements.

Insecticides: Use ½ to 2 pints per 100 gallons of spray mix or use ¼ to 1 pint per acre in concentrate sprays of 50 gallons or less. For use with dormant oils and/or dormant sprays, use 1 to 2 quarts per 100 gallons of spray mix.

Fungicides: Use ½ to 2 pints per 100 gallons of spray mix or use ¼ to 1 pint per acre in concentrate sprays of 50 gallons or less.

Desiccants: Use 1 to 2 gallons per acre of SUPER SPREAD MSO with desiccants.

For pesticides/herbicides that permit use of an adjuvant at a higher rate, follow instructions on that pesticide/herbicide label. HOWEVER, DO NOT ADD THIS PRODUCT AT A RATE THAT EXCEEDS 5% OF THE FINISHED SPRAY VOLUME. EXCEPT WHEN USED AS A DILUENT IN DORMANT, BASAL, SITE PREPARATION OR OTHER SIMILAR APPLICATIONS, PER LABEL INSTRUCTIONS.





Syl-Tac EA

- Silicone Ethylated Seed Oil Blend
- Aquatic
- Low rate of 4-6oz/ac
- Great with Gly and/or Imazapyr to control deciduous brush for site prep.

SYL-TAC-EA® is a highly effective proprietary blend of organosilicone surfactant and ethylated seed oil (ESO). When used in conjunction with various agricultural chemicals, SYL-TAC-EA provides excellent spreading, wetting, and penetration of the active ingredient(s) into the plant tissue.

Features

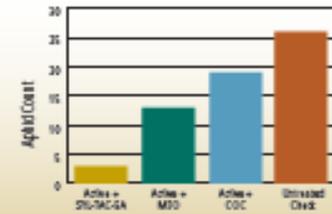
- For use with pesticides that benefit from the characteristics of an organosilicone.
- Premium organosilicone surfactant plus ethylated seed oil blend.
- Designed for use with herbicides, insecticides, and/or fungicides.
- Labeled for aquatic use.
- NPE free product.

Benefits

- Formulation provides excellent spreading, wetting, and penetration characteristics.
- Enhances insecticide, fungicide, and herbicide uptake, including translaminar movement of certain active ingredients.
- Reduces phytotoxicity potential because of lower solvency of the ESO (Kauri-butanol value).
- Results in increased efficacy of the pesticide(s).
- Ability to use with aquatically labeled pesticides.
- Excellent safety and handling characteristics.

Application: Aerial and Ground

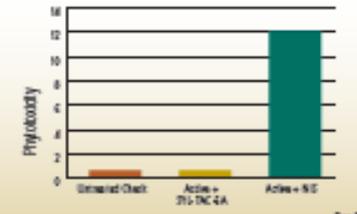
SYL-TAC-EA versus MSO and COC with Active Ingredients for Aphid Control at 8 DAT



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John Cook - National Wilbur-Ellis

SYL-TAC-EA versus NIS with Active Ingredients for Broccoli Phyto at 8 DAT



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Don Foley at Gardco

Efficax

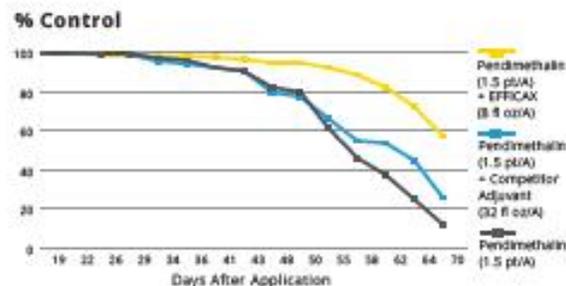
- Soil disposition aid
- Helps keep soil active products like Velpar DF in the soil profile longer
- Also a drift control agent.
- Rate is 8oz/ac

**EFFICAX® Keeps Herbicides
in the Kill Zone**



- Early spring and fall application times
- EFFICAX® functions to hold soil-active herbicides in place longer by reducing herbicide movement after application
- Better, more consistent weed control by increasing the amount of time the residual herbicide remains in the weed germination/emergence zone*

EFFICAX IMPROVES RESIDUAL HERBICIDE ACTIVITY OF SOIL-APPLIED PENDIMETHALIN



In the top line, note how the addition of EFFICAX to pendimethalin holds back germination of common purslane over a longer period of time than pendimethalin alone. For example: 48 days after spray the herbicide alone has only controlled 83% of the purslane, but pendimethalin + EFFICAX is still controlling 95% of the purslane.



EFFICAX BENEFITS



Greater herbicide soil retention leading to improved residual weed control



Increased soil deposition creating better coverage



Excellent soil absorption and adhesion properties



Excellent tank mix compatibility

*EFFICAX has no effect on UV degradation or half-life of the chemistry. Refer to manufacturer's label for more details.

EFFICAX HOLDS YOUR INVESTMENT WHERE IT IS NEEDED

Crosshair

- Reduces driftable fines to below 105 microns
- Great for your aerial applications keeping herbicides on target.

ADJUVANTS
MFC Free 002
CROSSHAIR®

CROSSHAIR® – Deposition and Drift Management Agent

CROSSHAIR is a consistently high performing drift and deposition control agent that offers a single rate, last-in-tank usage and is part of a best-in-class drift reduction technology portfolio. CROSSHAIR reduces driftable fines (less than 105 microns), increases deposition and has a broad use with most products.

Benefits:

- Broad use, last in tank
- Reduces driftable fines (less than 105 microns)
- Increases deposition (average of 20%)
- Approved for aquatic use*
- NPE free

Use With:

- Agricultural
- Forestry
- Vegetation Management
- Non-crop
- Turf and Ornamental
- Golf Course

Application:

- Aerial and Ground



Herbicide & Adjuvants for Dummies



Projects

Site Prep

- Try to visit site prior to logging to see what veg is present.
- Give as much time between harvest being complete and application. Allowing for brush to resprout.
- Chose your application method.
- Set your prescription and rates.
- Notify to the state.
- Aerial application, pick your heliports
- Prepare plan to execute an efficient project.
- Good daily records



Projects

Herbaceous Release

- Review units that will need a spring release
- Work with applicator to determine time of application
- Plan your prescriptions
- Notify your units
- Prepare plan to execute an efficient project.
- Weather Days, time to be patient. Getting to know your crew.
- Review units in early summer to see your successes



Projects

Brush Release

- Determine if units need to be released
- Application method
- Prescriptions
- Timing of application. Spring, Summer or Fall
- Safety of seedlings



Forest Practice Rules

- Get to know your stewardship forester or DNR rep.
- Their job is to help you through your challenges in your herbicide projects. But if you don't communicate your questions and you end up breaking the rules they will become the police.
- Know your forest practice rules.
- Don't let Forest Practice rules influence your choices during an application.
- With the required reporting the day before and after the days aerial applications choices could be made to make the reporting easier. That could be to push weather to complete a units when wind is strong or inconsistent.



Summary



Questions?



THE POWER OF WE™



WILBUR-ELLIS.