

# SUPPRESS®

## TECHNICAL BULLETIN

# EFFECTIVE ORGANIC WEED CONTROL



4 hours post-application



72 hours post-application



Effective control of mallow (Malva)

**SUPPRESS® Herbicide EC** is a highly effective EPA registered tool for organic growers and can be used to increase efficacy of chemical herbicides and address resistance issues. This proprietary and patented product is registered as a non-selective, post-emergent herbicide for use in and around all food and non-food crop areas, as well as non-agricultural and industrial sites. **SUPPRESS®** has been approved by OMRI and WSDA for use in certified organic food production.

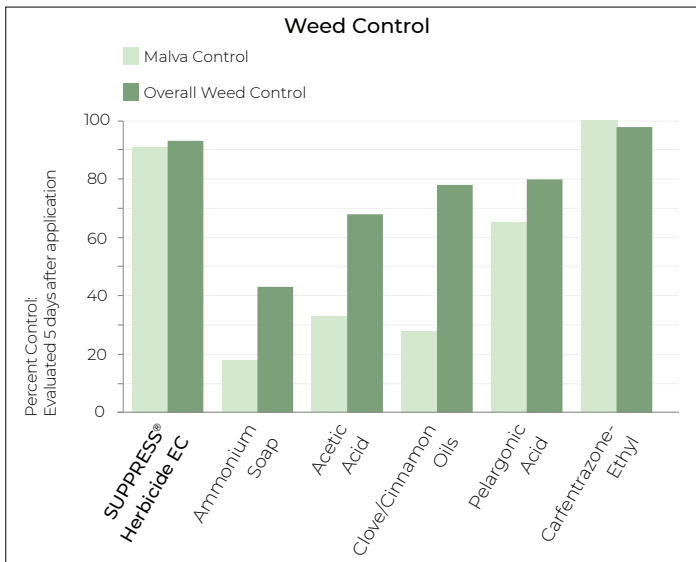
Weeds compete for space and resources that crops depend on, and weeds act as hosts for insect pests and plant diseases which can move into cultivated crops. Weed control is always a huge challenge for organic growers and there are few effective and economical options available for use on organic food crops. **SUPPRESS®** provides growers with a valuable tool to help meet their production goals.

### MODE OF ACTION

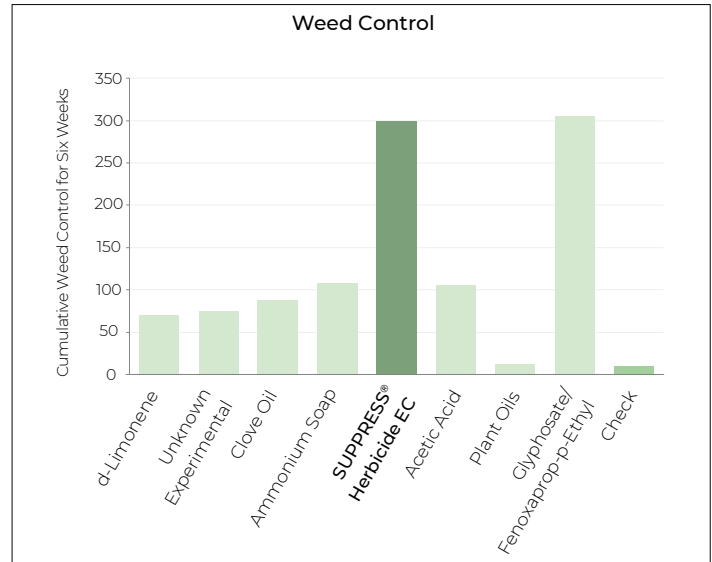
The active ingredients in **SUPPRESS®** are naturally-occurring fatty acids which disrupt the plant's waxy cuticle and cell walls, causing weeds to dehydrate and die. **SUPPRESS®** is not volatile; therefore, vapor damage will not occur to non-target plantings.

### EFFICACY

In years of university and commercial trials, **SUPPRESS®** has consistently shown excellent results in controlling various weeds. Plant responses can usually be seen shortly after application.



University trial, 2013



University trial, 2013

## Application rates

Use the lower use rate range for young, succulent and actively growing weeds and the higher rate (6-9% with up to 100 gallons of water) for weeds greater than six inches in height. Use the highest rate for perennial weeds when the plants have “hardened.” For maximum weed control, apply **SUPPRESS®** directly on the targeted weeds. Product must be sprayed in a manner to avoid drift damage to the crop, such as applying with hooded spray equipment. Use enough water to thoroughly cover the weeds.

- Use a 3% solution for control of annual weeds.
- Use a 6% solution for burndown of perennial herbaceous plants and weeds.
- Use a 9% solution when maximum vegetative burndown, edging, or foliar trimming is desired.

Repeat applications as required to maintain desired level of weed control and to control plants emerging from seed and underground parts.

Desired Volume of Spray Solution (gallons of Water)	Amount of <b>SUPPRESS®</b> Herbicide EC per Volume of Water (Volume/Volume)		
	3% Solution	6% Solution	9% Solution
1	4 fl oz	8 fl oz	12 fl oz
3	12 fl oz	24 fl oz	36 fl oz
25	96 fl oz	1.5 gal	2.25 gal
50	1.5 gal	3 gal	4.5 gal
70	2.1 gal	4.2 gal	6.3 gal
100	3 gal	6 gal	9 gal

## SUPPRESS® Herbicide EC Mixing Instructions

**Temperature:** For best results apply above 60 degrees and below 95 degrees.

**Moisture:** Make sure weeds are dry from any moisture or irrigation before applying. Make sure weeds are actively growing and have not gone to seed. Don't water within 4 hours of application.

**Ph:** Buffer water to 6 or below for hard to kill weeds. Adjust ph to a 3-4 (Organic BioLink® Acidifier can be used).

**Water volume:** Minimum 25 GPA for <6 inch weeds, 33-40 GPA for weeds greater then >6 inches.

**Agitation:** SUPPRESS® should be added to the spray tank with agitation. The spray solution should be agitated during application. The diluted product should be used within 8 hours.

**Sprayer Nozzles:** 8002, Growers have been happier when NOT using Venturi nozzles.

### Note:

- Do Not apply to weeds when wet from dew, rain or water. Do not water within 4 hours after applications.
- Do Not apply if rainfall is expected within 4 hours of spray. **Do not apply this product through any type of irrigation system.**

**⚠ Do Not tank mix with silicon-based surfactants. Non-ionic surfactants are not recommended.**

- **Step 1:** Shake or mix 2.5 jug, drum or tote well before dispensing into tank.
- **Step 2:** Acidify water 1st, BioLink® Acidifier can be used. Label attached.
- **Step 3:** Add half water to application tank.
- **Step 4:** Add SUPPRESS®, rate 6-9% per acre, rate chart is attached for your reference.
- **Step 5:** Add XENA® Spreader-Sticker at 8 ounces per 100.
- **Step 6:** Add remaining water & mix well (SUPPRESS® should be a milky emulsion). Continue mixing during application.

**Speed:** Tractor Speed 2 mph or less.