

Tank mix compatibility and phytosafety



TANK MIX COMPATIBILITY TESTING

Objective

To determine the compatibility of Sixteen90 surfactant when mixed with commonly used pesticides.

Method

Sixteen90 surfactant at a rate of 6 oz/1000ft² in 2 gallons of water was mixed with the highest labeled rates of various pesticides. Once combined, compatibility was assessed at 0 hour and 1 hour. Tank mix compatibility was evaluated by assessing agitation requirements, as well as ability to form a homogeneous, sprayable solution.

Results

Table 1 lists the results of the physical compatibility trial. All pesticides were physically compatible with Sixteen90 surfactant. When phase separation did occur, agitation was required to return the tank mix to a soluble, sprayable solution.

PHYTOSAFETY TESTING

Objective

To determine the phytosafety of Sixteen90 surfactant when mixed with commonly used pesticides.

Method

Sixteen90 surfactant at a rate of 6 oz/1000ft² in 2 gallons of water was mixed with the highest labeled rates of various pesticides. Solutions were sprayed on potted bentgrass and bermudagrass to determine phytosafety. Phytotoxicity was evaluated as none (completely safe), low (slight tip burn), moderate (yellowing of turf), or extreme (severe yellowing of turf). Extreme phytotoxicity indicates a combination which is not safe for turf use.

Table 1. Physical Compatibility

Product	0 Hours	1.0 Hours
Primo	Yes	Yes
Trimmit	Yes	Yes
Proxy	Yes	Yes
Confront	Yes	Yes
Mach 2	Yes*	Yes*
Sevin	Yes	Yes*
PCNB	Yes	Yes*
Dimension	Yes	Yes
Acclaim	Yes	Yes*
Chipco 26GT	Yes	Yes
Banner Max	Yes	Yes
Fore	Yes*	Yes*
Subdue Maxx	Yes	Yes
Compass	Yes*	Yes*
Bentgrass Special	Yes	Yes
Bayleton	Yes	Yes*
Cleary's 3336	Yes	Yes*
Daconil W.S.	Yes	Yes

*Agitation required to resuspend chemicals to a homogeneous, sprayable solution.

Table 2. Phytosafety

Product	Phytotoxicity
Primo	None
Trimmit	None
Proxy	None
Confront	None
Mach 2	None
Sevin	None
PCNB	None
Dimension	None
Acclaim	None
Chipco 26GT	None
Banner Max	None
Fore	None
Subdue Maxx	Low
Compass	None
Bentgrass Special	None
Bayleton	None
Cleary's 3336	None
Daconil W.S.	None

