

Winegrapes--Best Application Practices & Cost (Based upon cost of \$100/gallon)

First Application in Springs—Vines with two to four inch shoots: Prolifix (2 oz/gal) sprayed in sufficient volume to uniformly cover foliage. Estimate 25 gal/acre. Cost = **\$39.06/acre**

Second Application—Three to four weeks after first application just before or during flowering: Prolifix 2 oz/gal in 40 gal/acre. Cost = **\$62..50/acre**

Three to four weeks after second application (pea sized berries):
Prolifix 2 oz/gal in 50 gal/acre. Cost = **\$78.13/acre**

Total cost for the season = \$170.69/acre



ProLifix is exempted by the EPA from the requirement of pesticide residue tolerances and may be used on any crop. While components of the products have been shown in the scientific literature to benefit many crop, Circadian Crop Sciences has only tested ProLifix on winegrapes. For stone fruits we would suggest a similar application schedule as for winegrapes. For row crops treat seedlings prior to transplanting at 3 oz/gal and every three to five weeks thereafter at 1 to 3 oz per gal up until harvest.

Properties of our patented, crude, non-GMO corn oil in ProLifix

Antioxidant capacity rivals that of blueberries. 128 mmol Trolox/kg in ProLifix corn oil versus 150 mmol Trolox/kg in blueberries versus **0 mmol Trolox/kg other horticultural oils.**

Principle antioxidants: Lecithin 24,000 mg/kg phytosterols 12,000 mg/kg
tocopherols 1200 mg/kg carotenoids 7.41 mg/kg zeaxanthin 7.89 mg/kg

Fatty acids in vegetable oils are a concentrated energy source for plants.

Linoleic 54% Oleic 30% Palmitic 12% Stearic 2%

Primary phenolic acids. Protects plants from diseases and insect feeding

Hesperidin 24 mg/kg Gallic acid 16 mg/kg Rutin 14 mg/kg

Other Plant Beneficial Constituents: Vitamin E 8 mg/kg Thiamine 8 mg/kg

Panthenic acid 11 mg/kg Riboflavin 2 mg/kg 1-Triacontanol 10 mg/kg

US Patent 11,638,422 B1

	ProLifix	Sulfur	Mineral Oil
Sulfur Compatible	yes	yes	no
Toxic to plants	no	no	yes
Significant Human Health Risks	no	yes	no
Environmental Concerns	low	mod	low
Biological Control Compatible	excellent	good	moderate
Spider mite control	Good	low	Good
Hastens ripening	Yes	No	No
Increases brix at maturity	Yes	No	No
Improves heat & cold tolerance	Yes	No	No
Improves drought tolerance	Yes	No	No

Pruning Cuts & Graft Unions

Paint ProLifix concentrate over fresh pruning cuts and graft unions to aid in healing and to prevent disease. Treat pruning shear blades to reduce spreading of disease and to lubricate shears.

