



Sponto® EC-452

A cost-effective and optimized emulsifier package

What you need in a formulation is a product that applicators prefer: easy to use and safe to handle, and effectively emulsifies on its own when diluted with water in a spray-tank, without need for a multitude of expensive surfactants.

You need a robust all-in-one emulsifier that is versatile enough to work for a variety of pesticidal actives, solvents and levels of water hardness. You need Sponto EC-452, our next generation, NPE-free emulsifier.

What is Sponto EC-452?

Sponto EC-452 is a proprietary, optimized package of anionic and nonionic surfactants that is non-flammable and nonylphenol-free.

What formulations are Sponto EC-452 recommended for?

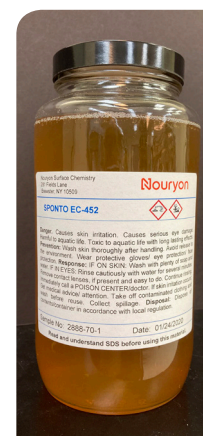
We recommend Sponto EC-452 to be used at 50-80 g/l for a wide range of pesticide classes including phenoxy esters, dinitroanilines, triazoles, and more.

EC formulations with Sponto EC-452 show excellent emulsion stability at 5% emulsion in variety of water hardness with a full blooming effect, uniform emulsion opacity and formulations stability over 24 hours.



Product properties

Property	Value
Active, %	>79
Appearance, 35°C	dark amber, hazy viscous liquid
Contact angle (parafilm 0.1%)	42°
Flash point	100°C
Foam profile (0.1% Ross Miles)	0 min, 88 mm 5 min, 67 mm
pH (1% in water)	5
Solubility in water	dispersible
Surface tension (0.1%)	29 mN/m
Wetting (Draves 0.1%)	13 seconds



Recommended recipe guidelines

Active	Component (w/w%)	
	Formulation 1	Formulation 2
Trifluralin	45	45
Aromatic 200	49	
Armud DM810		49
Sponto EC-452	7	7

Active	Component (w/w%)	
	Formulation 1	Formulation 2
Tebuconazole	28	37
Armud DM810	64	55
Sponto EC-452	8	8

Active	Component (w/w%)	
	Formulation 1	Formulation 2
2,4-D Ester	70	94
Armud DM810	24	0
Sponto EC-452	6	6

Active	Component (w/w%)
MPCE	70
Soy Methyl Ester	24
Sponto EC-452	6

Active	Component (w/w%)
Permethrin	25
Soy Methyl Ester	70
Sponto EC-452	5

Active	Component (w/w%)
Malathion	57
Aromatic 200	35
Sponto EC-452	8

Active	Component (w/w%)
Bromoxynil	33
Aromatic 200	61
Sponto EC-452	6

Contact us directly for detailed product information and sample request
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Nouryon

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