



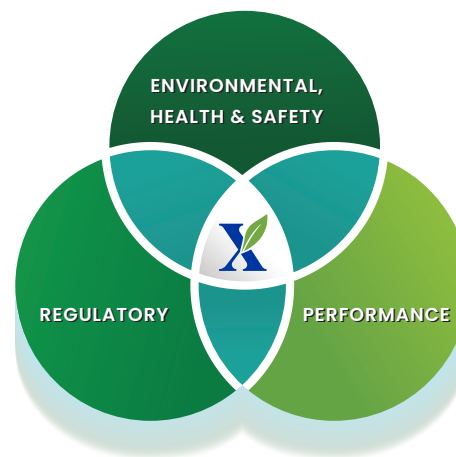
THE SOLVE-IT SOLVENT

gaylordchemical.com



The AgXalt™ product series is a newly available performance solvent that provides agrichemical formulators an environmentally friendly and non-toxic alternative to the legacy agrichemical solvents. As a highly polar super solvent, AgXalt™ can enhance solubility for hard to dissolve active ingredients, and can be used in a wide range of formulation types.

AgXalt™ is a triple threat solvent, delivering on Performance, Regulatory, and EH&S metrics. Our solvent series has global regulatory approval (REACH, CFR §180.190) with no tolerance restrictions.



PERFORMANCE IN THE LAB





AgXalt™ is a Versatile Performance Solvent which plays well with water, adjuvants, and a broad range of cosolvents. It is the most polar solvent listed in the US EPA Inert Solvent list- making it uniquely powerful as a solvency booster for tough pesticides. Its solid chemical stability makes your formulations last.

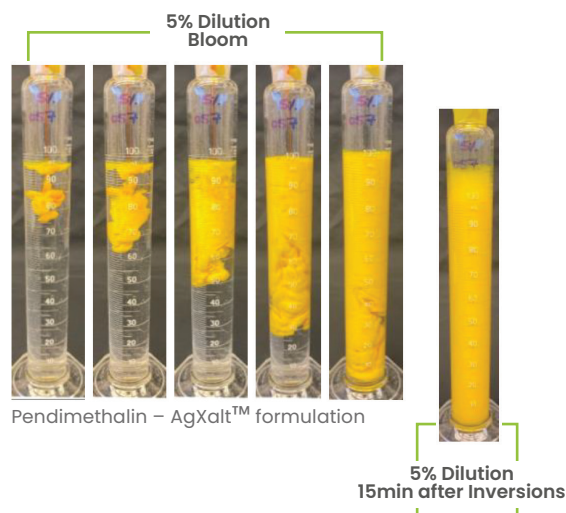
It has been proven to deliver fungicides, herbicides, and other pesticides while not damaging valuable crops.

AgXalt™ performs both in the lab...and in the field.

The High Solvent Strength of AgXalt™ empowers the formulator with a tool to develop new products. Its complete miscibility in water allows smooth dispersion into water-based tank mix without lengthy agitation.

Active Ingredients	Solubility		
	AgXalt™	NMP	Heavy Aromatic
Tebuconazole	72%	70%	7%
Metalochlor	34%	32%	1%
Iprodione	40%	38%	15%
Fluroxypyr	67%	66%	59%
Chlorpropham	44%	46%	40%
Azoxystrobin	32%	42%	<1.0%

Solvent	AgXalt™	NMP	NBP	DMAc
				
Flash point [°C]	89	95	108	62
Evaporation pt [nBA=1.0]	0.026	0.04	0.001	0.69
Boiling point [°C]	189	204	241	152
Vapor Pressure 25 [°C]	0.5	0.29	0.26	1.78
Hansen Solubility Parameters MPa ½				
Non-Polar	18.5	18.1	17.8	16.8
Polar	16.4	12.3	8.2	11.5
Hydrogen bonding	10.3	7.2	5.9	10.2
Total	26.8	22.9	20.5	22.7



FORMULATION READY

In EC formulations, AgXalt™ produces highly loaded pesticide concentrates. Surfactants can be added by the formulator to produce effective tank mix emulsions for spray application in the field. Some pesticides, although soluble in water, will react with water. Use AgXalt™ as a substitute in SL formulations to solve this problem. Need to replace a toxic solvent? Concerned about the safety, availability, or regulatory acceptance of derivatives? AgXalt™ is a proven alternative.

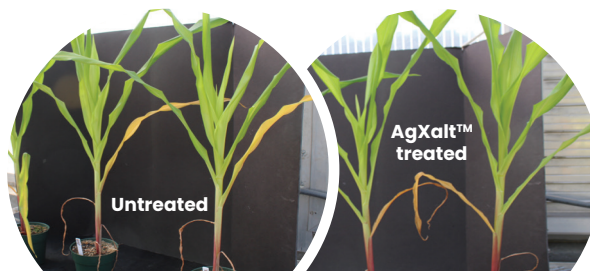


PERFORMANCE IN THE FIELD

AgXalt™ is gentle to valuable crops and allows pesticides to do their job in the field.

NON-PHYTOTOXIC

No evidence of phytotoxicity has been observed in greenhouse studies of AgXalt™-based EC formulations.



Greenhouse trial: AgXalt™ Corn Phytotoxicity



Weed Control: AgXalt™-based herbicide vs. control (42 DAT)

EFFECTIVE

Studies against non-treated controls have demonstrated the effectiveness of AgXalt™-based herbicide formulations. A new herbicide formulation using AgXalt™ has improved performance relative to the commercial standard.



ENVIRONMENTAL, HEALTH & SAFETY

AgXalt™ brings an unmatched combination of performance, safety, and sustainability to agrichemical formulators around the world.

- Global approvals for use as an inert ingredient
- ECOVADIS scorecard is available
- Non-toxic solvent

Health	AgXalt™
Oral LD ₅₀	14,500 mg/kg (rat)
Dermal LD ₅₀	40,000 mg/kg (rat)
Inhalation	>5,330 mg/m ³ (rat); 4H
Eye Irritation	N/A
Skin Irritation	Slight
Skin Sensitization	None

Safety	AgXalt™
Flammable Liquid	Category 3
Carcinogen	N/A
Nervous System	N/A
Respiration Irritant	N/A
Aspiration Toxicant	N/A
Aquatic Hazard	N/A





REGULATORY

Before you invest developmental resources into a crop protection product, you need to understand the compliance status of any ingredient. AgXalt™ is an important component of crop protection products in the United States, European Union, and Brazil.



TSCA Inventory listed

New! CFR §180.190 inert ingredient listing with no tolerance restrictions
Not subject to US State RTK¹ law requirements



REACH registered

Not SVHC² listed
Not a PBT / vPvB or PMT / vPvM substance³
Not listed as a CMR⁴ substance

1. RTK = 'Right To Know' 2. Substance of Very High Concern 3. PBT = Persistent, Bioaccumulative, and Toxic;
PMT = Persistent, Mobile, and Toxic 4. CMR = Carcinogenic, Mutagenic, or Reprotoxic



AgXalt™



**Gaylord
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