



AgXalt™

# THE SOLVE-IT SOLVENT

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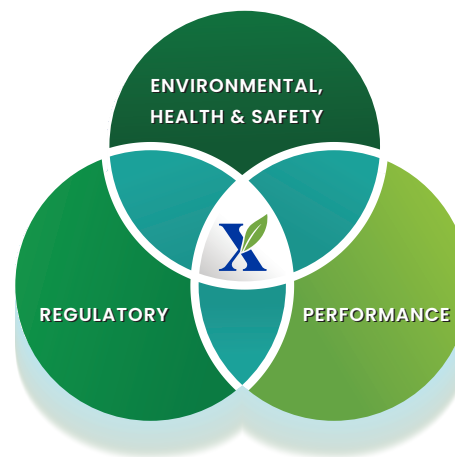
[gaylordchemical.com](http://gaylordchemical.com)



# AgXalt™

AgXalt™ X-100 is the first in a line of next generation formulation solvents designed to help producers, formulators, and farmers safely and effectively apply critical resources to farmland. As a highly polar super solvent, AgXalt™ X-100 enhances solubility for hard to dissolve active ingredients and can be used in a wide range of formulation types.

AgXalt™ X-100 is a triple threat solvent, delivering on Performance, Regulatory, and EH&S metrics with global regulatory approval (REACH, 40 CFR §180.920) and no use restrictions.



## PERFORMANCE IN THE LAB

**AgXalt™ X-100 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.

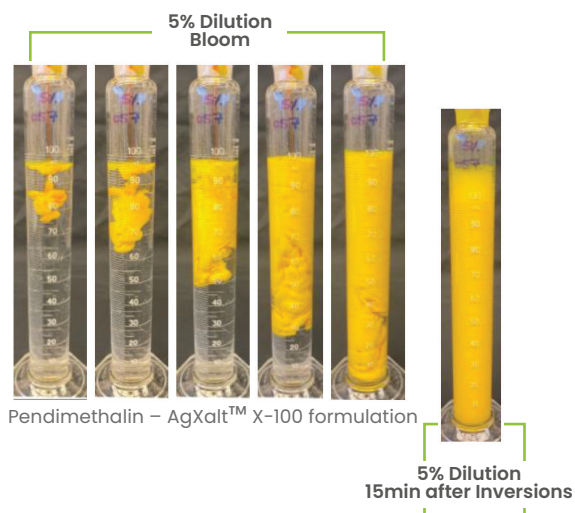
**AgXalt™ X-100** performs both in the lab and in the field.

### The High Solvent Strength of AgXalt™ X-100

empowers formulators with a tool to develop new products. Its complete miscibility in water allows smooth dispersion into water-based tank mixes without lengthy agitation.

Active Ingredients	Solubility		
	AgXalt™ X-100	NMP	Heavy Aromatic
Tebuconazole	<b>72%</b>	70%	7%
Metalochlor	<b>34%</b>	32%	1%
Iprodione	<b>40%</b>	38%	15%
Fluroxypyr	<b>67%</b>	66%	59%
Chlorpropham	<b>44%</b>	46%	40%
Azoxystrobin	<b>32%</b>	42%	<1.0%

Solvent	AgXalt™ X-100	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
<b>Hansen Solubility Parameters MPa<sup>1/2</sup></b>				
Non-Polar	<b>18.5</b>	18.1	17.8	16.8
Polar	<b>16.4</b>	12.3	8.2	11.5
Hydrogen bonding	<b>10.3</b>	7.2	5.9	10.2
Total	<b>26.8</b>	22.9	20.5	22.7



### FORMULATION READY

In EC formulations, AgXalt™ X-100 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™ X-100 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™ X-100 is a proven alternative.

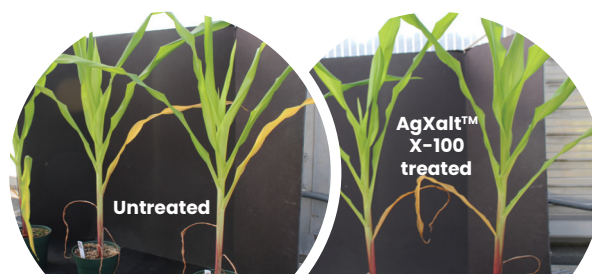


# PERFORMANCE IN THE FIELD

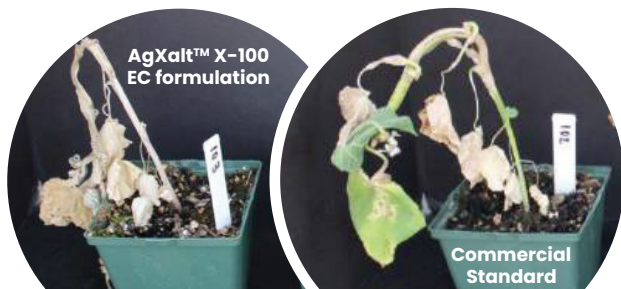
AgXalt™ X-100 is gentle on valuable crops and allows pesticides to do their job in the field.

## NON-PHYTOTOXIC

No evidence of phytotoxicity has been observed in greenhouse studies of AgXalt™ X-100 based EC formulations.



**Greenhouse trial:** AgXalt™ X-100 Corn Phytotoxicity



**Weed Control:** AgXalt™ X-100 based herbicide vs. commercial standard (42 DAT)

## EFFECTIVE

Studies against non-treated controls have demonstrated the effectiveness of AgXalt™ X-100 based herbicide formulations. A new herbicide formulation using AgXalt™ X-100 has improved performance relative to the commercial standard.



# ENVIRONMENTAL, HEALTH & SAFETY

AgXalt™ X-100 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™ X-100
Oral LD <sub>50</sub>	14,500 mg/kg (rat)
Dermal LD <sub>50</sub>	40,000 mg/kg (rat)
Inhalation	>5,330 mg/m <sup>3</sup> (rat); 4H
Eye Irritation	N/A
Skin Irritation	Slight
Skin Sensitization	None

Safety	AgXalt™ X-100
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™ X-100 is an important component of crop protection products in the United States, European Union, and Brazil.



### TSCA Inventory listed

**New!** 40 CFR §180.920 inert ingredient listing with no tolerance restrictions  
Not subject to US State RTK<sup>1</sup> law requirements



### REACH registered

Not SVHC<sup>2</sup> listed  
Not a PBT / vPvB or PMT / vPvM substance<sup>3</sup>  
Not listed as a CMR<sup>4</sup> substance  
Authorized PPP co-formulant<sup>5</sup>

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 5. PPP = Plant Protection Products



# AgXalt™



**Gaylord  
Chemical  
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