



How to choose the correct adjuvant and when you should consider their use. Correct tank mixing sequences.

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What I will cover



- > Adjuvant purpose Activator or Utility?
- > Plant morphology and crop growth
- > PPP specific adjuvant needs
- > Utility adjuvant choice
- > Tank mixing and sequence



Adjuvant purpose

HTA

- ✓ Most important consideration
- ✓ Legality of use of the adjuvant with the PPP
- ✓ Crop risk considerations
- ✓ Spray equipment, water volumes and spray quality
- ✓ Water quality and spraying conditions





Plant morphology and crop growth











PPP specific needs

HTA

- ✓ READ THE LABEL AND THE EAMU!
- ✓ Formulation of the product
- ✓ Active substance nature!
- ✓ Mode of Action and Group





PPP specific needs

THIOPRON®

TANK-MIX COMPATIBILITIES

recommended rates of use and will mix in the sprayer tank. Physical compatibilities may not be approved tank mixes. These tests have not been undertaken to check for any adverse cross

biological ef	These tests have not ficacy of the individua physical compatibilitie	al products when	applied as a tank-	mix. UPL Europe Ltd	
UPL will sup	port the tank mix of 1	HIOPRON with a	ny one of the follow	ving products.	
FUNGICID	ES				
Adexar	Consul	IODUS	Mirror	Sakura	Toledo
Affix	Decoy 250 EC	Jaunt	Myresa	Serpent	Topguard
Amistar	Elatus Era	Justice	Mystic	Siltra Xpro	Tucana

Aviator 235 Xpro Boogle Xpro Plus

Ascra Xoro

Assemble

Axial Pro

Duplosan KV INSECTICIDES

Escolta Imtres

Mirador Xtra

Phoenix Proline Revostar XE

Flagstaff

NE PGA

Proleaf Boron 15

Proleaf Gate

Pacifica plus

Pixosano EC

Sloowary 285 Xpro Swift SC Tallus

Vegas

TOKYO

Zypar

Teopoeki

PLANT GROWTH REGULATORS

NUTRITION / BIOSTIMULANTS ARY-AMIN

Bridgeway Copper (FMC) HERBICIDES

Human Z50

Hatra

ADJUVANTS

MINSTREE

UPL

www.upl-ltd.com/uk

Strand of the St

'Amistar' should not be mixed with any adjuvant. no not apply 'Amistar' at temperature

Turnidity is high, such as early morning of late evening, it is reconnended that AQ10 best it applied when is applied with Au Film P. adjuvant Au 635) The efficacy of AQ10 may be improved when applied at a rate of 0.3 littles ha. using this adjuvant.

Spray when aphids are first seen. Repeat if necessary. Add a non-ionic surfactant adjuvant that is not an organosilicone in accordance with the manufacturer's instructions.

Overdosing can result in transient yellowing of leaves, especially where high rates of a composting or wetting agent have been used.



PPP specific needs

- ✓ Water conditioning
- ✓ Know your water parameters
- ✓ Stability and miscibility







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- ✓ Single purpose adjuvants are easy to use
- ✓ Multi-purpose adjuvants are risky
- ✓ Often too many benefits = poor result
- ✓ Many require good knowledge of chemistry



















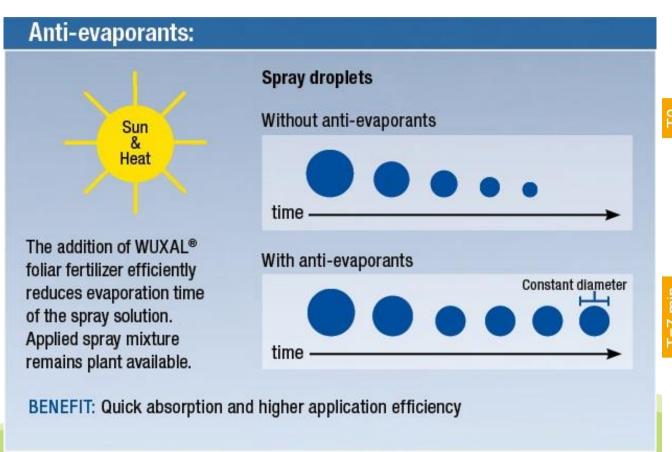


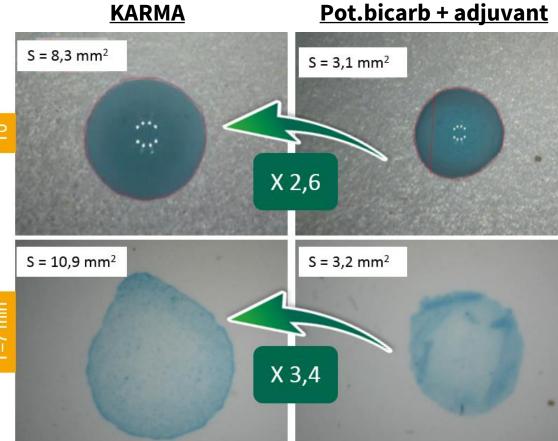




Dose: 5 Kg/ha dans 200 L

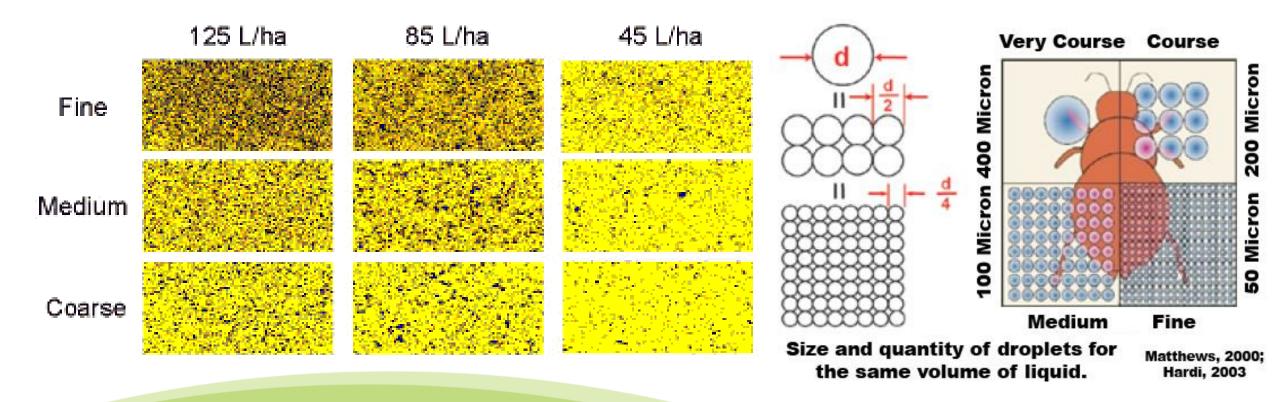
Sustainable ICM





Dose: 5 Kg/ha dans 200 L







Tank mixing and sequence

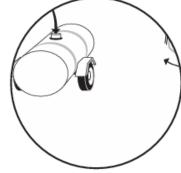
HTA

TANK MIXING BEST PRACTICE

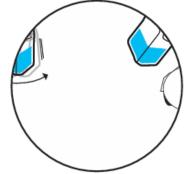
Suspension concentrate (SC) formulations are a solid active ingredient dispersed in water and/or other solvents. Prior to use, it is recommended for SC products to be thoroughly agitated by vigorous shaking of the container. For optimum product performance please follow the guidelines below and adhere to the D.A.L.E.S guidance for tank mixing.



1. Shake full container vigorously before opening.



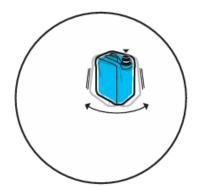
2. Empty ½ of the container into the tank.



3. Close and shake up the rest of the container.



4. Empty the rest of the container into the tank.



5. Triple rinse the container, drain and dispose of appropriately according to the recommendations on the label.



Tank mixing and sequence



Other	1		Add any required water conditioners		
Solids	2	WG	Water Dispersible Granules less than 100g/ha		
	3	WB	Water Soluble Bags		
	4	WG	Water Dispersible Granules more than 100g/ha		
	5	WP	Wettable Powders		
Liquids	6		Compatability Agent		
	7	SC	Suspension Concentrate		
	8	SE	Suspo-Emulsion		
	9	EW	Oil in Water Emulsion		
	10	EC	Emulsifiable Concentrate		
	11	SL	Soluble Concentrate		
	12		Other Adjuvants		
Other	13		Micro-nutrients / Foliar feeds		



SUMMARY



- > PURPOSE
- > LOCATION OF TARGET
- > PLANT MORPHOLOGY AND CROP GROWTH
- > CROP SITUATION
- > PLANT PROTECTION PRODUCTS
- > TIMING OF APPLICATION AND WEATHER CONDITIONS
- > WATER QUALITY AND SPRAY QUALITY
- > TANK MIXING AND SEQUENCE
- > APPLICATION AND WATER VOLUME

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