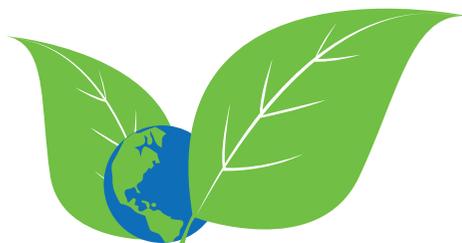


# GAC Adjuvant guide



**GLOBAL ADJUVANTS COMPANY**

Situation / Application	Active Delivery Issue	Why do you need an adjuvant	What chemistry do you need	Suggested GAC Product
Pesticide or micronutrients label recommends using non-ionic wetting agent	UPTAKE + COVERAGE	General purpose economical wetting required to increase spreading and uptake	Non ionic surfactant	<b>Spreadex Katalyst 90</b>
Reduce water rates used when applying pesticides or micronutrients	COVERAGE	Spray area or sprayer capacity limitations, lack of available water, reduce time to make applications	Organosilicone based adjuvant	<b>Master Wett / Rapido</b>
Reduce spray drift	RETENTION	Off target sprays can reduce efficacy	Surfactant to reduce surface tension of spray droplet and minimise 'bounce'	<b>Rapido</b>
Spraying blight fungicides, spraying pesticides and foliar micronutrients in wet or difficult conditions	STICKER	Increase rainfastness and increase retention of contact fungicides on the leaf	Latex low rate + wetter	<b>Covermax</b>
Applying herbicides labelled to be sprayed with crop oil / MSO	UPTAKE	Oils increase absorption of herbicides into the plant	Mineral oils / veg oils / methylated seed oils + surfactants / emulsifier	<b>Rapido</b>
Applying SU herbicides / ALS inhibitors / Phenoxy herbicides	ACTIVATION/UPTAKE + COVERAGE	Need to improve spray coverage and an activator to increase speed of active uptake	Non oil-based non-ionic surfactant	<b>SU-Wett / Herbi Aktiv</b>
Applying herbicide to difficult to wet / waxy leaved crop e.g. cereals, pea, OSR, sugar beet, cabbage	UPTAKE + COVERAGE + RAINFASTNESS	Need to use a superspreader to increase foliar coverage and stomatal flooding. Faster drying on leaf to increase rainfastness	Organosilicone based adjuvant	<b>Master Wett / Velvet</b>
Herbicide targeting difficult to kill or oversized weeds	UPTAKE + COVERAGE + RAINFASTNESS	Increase uptake and penetrate waxy leaves. Improve rainfastness	Surfactant spreader + Oil based penetrant	<b>Rapido</b>

Situation / Application	Active Delivery Issue	Why do you need an adjuvant	What chemistry do you need	Suggested GAC Product
General fungicide and insecticide applications e.g. Triazole fungicides	COVERAGE + UPTAKE	Need to use a superspreader to increase foliar coverage and stomatal flooding. Faster drying on leaf to increase rainfastness. For both contact and translocated fungicides	Organosilicone based adjuvant	<b>Master Wett / Rapido</b>
Spraying with hard water sensitive actives	WATER CONDITIONER	Salt, calcium and magnesium ions form insoluble complexes and reduce pesticide efficacy	Acidic + Surfactant based water conditioner	<b>GO-pH R-01</b>
pH of spray water outside optimal 4.5-6	WATER CONDITIONER	Under alkaline (pH 7+) conditions, alkaline hydrolysis occurs which degrades the pesticide to non-toxic (inactive) forms	Acidic buffered water conditioner	<b>GO-pH</b>
Glyphosate activation	SPEED OF UPTAKE/ACTIVITY	To speed uptake and activity and increase efficacy of all glyphosate formulations, especially tallow-free formulations	Ammonium sulphate (AMS)	<b>Gly-Aktiv</b>
Organic crops using a bio pesticide or organic approved pesticide & micronutrients	RETENTION + RAINFASTNESS	Generally organic pesticides have a slower uptake so need to increase retention and improve rainfastness	Paraffin wax based sticker	<b>PW-01</b>
Reduce pod shatter	RETENTION	Stickers can be used to seal oil seed rape and legumes to reduce yield loss and volunteers in the following crop	Latex + surfactant	<b>Laminex 45 Laminex 65</b>
Sprayer and tank cleaning	RESIDUE STICKING TO TANK	Many actives, especially SU herbicides, leave behind a residue after spraying that water alone will not remove. This has potential to damage crops with subsequent sprays	Surfactant, sequestant and detergent suitable for SU's	<b>Double Clean</b>



**GLOBAL ADJUVANTS COMPANY LTD**  
 20-22 Wenlock Road, London, N1 7GU, UK  
 Tel: +44 (0) 1480 810137  
 Email: office@global-adjuvants.com

**GAC Adjuvant guide**



**GLOBAL ADJUVANTS COMPANY**