

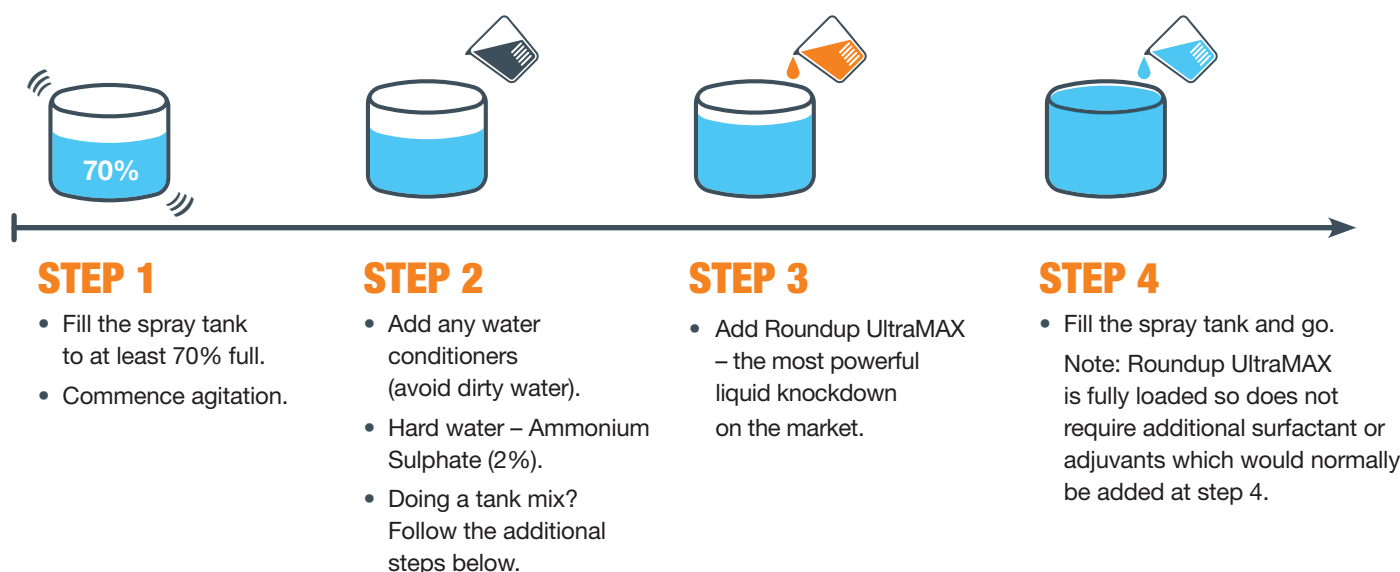
# ROUNDUP ULTRA<sup>®</sup>MAX TANK MIXING GUIDE

## THE MOST POWERFUL LIQUID KNOCKDOWN

Roundup Ultra<sup>®</sup>MAX is the latest in Roundup technology offering advanced performance and flexibility. Roundup UltraMAX is the most powerful liquid knockdown on the market, specially formulated with a unique surfactant system. Made to the highest standards using Monsanto technical ingredient and specifications, it is fully loaded and ready to use.



## ROUNDUP ULTRA<sup>®</sup>MAX TANK MIXING ORDER



### Tank mixing with other products

When tank mixing additional products with Roundup UltraMAX, the following order is recommended prior to commencing step 3:

- Add any **WDG (Water Dispersible Granule)**, or Dry Flowable products. Allow at least 10 minutes for complete dispersion.
- Add any **SC (Suspension Concentrate)** products.
- Add any **EC (Emulsifiable Concentrate)** products.
- Add any **SL (Soluble Liquid)** products.

### Water hardness

Water hardness is usually a result of calcium and magnesium in water, and is often shown as parts per million of calcium carbonate (CaCO<sub>3</sub>). At high levels (higher than 250ppm) it has been shown to decrease glyphosate activity as the calcium or magnesium ions bind to glyphosate making it biologically inactive. If using hard water, add ammonium sulphate prior to adding Roundup UltraMAX. This will ensure the negatively charged sulphate anions bind to the positively charged cations (calcium and magnesium) that would have otherwise bound to the glyphosate molecule.



## Compatible tank mix partners – Herbicides

Formulation type (code)	Example products	Active ingredients
Water Dispersible Granule (WDG)	Ally®	600g/kg metsulfuron methyl
	Archer® 750	750g/kg clopyralid present as potassium salt
	Associate®	600g/kg metsulfuron methyl
	Glean®	750g/kg chlorsulfuron
	Logran® 750WG	750g/kg triasulfuron
	Logran® B Power	200g/kg Butafenacil + 520g/kg triasulfuron
	Monza®	750g/kg sulfosulfuron
	Nu-trazine 900DF	900g/kg atrazine
	Nugran®	750g/kg triasulfuron
	Oust®	750g/kg sulfometuron methyl
	Sakura® 850WG	850g/kg pyroxasulfone
Dry Flowable (DF)	Express®	750 g/kg tribenuron methyl
Suspension Concentrate (SC)	Nu-trazine 600	600g/L atrazine
	Simazine Hi-Load 600	600g/kg simazine
Emulsifiable Concentrate (EC)	Avadex® Xtra	500g/L triallate
	Boxer Gold®	800g/L prosulfocarb + 120g/L S-metolachlor
	Comet® 400	400g/L fluroxypyr present as the methylheptyl ester
	Estericide® 800	800g/L 2,4-D present as the ethyl ester
	Estericide® Xtra 680	680g/L 2,4-D present as the 2-ethylhexyl ester
	Garlon™ 600	600 g/L triclopyr present as the butoxyethyl ester
	Goal™	240g/L oxyfluorfen
	Hammer®	240g/L carfentrazone-ethyl
	Hotshot™	10 g/L aminopyralid present as trisopropanolamine salt + 140 g/L fluroxypyr present as methylheptyl ester
	LVE Agritone®	570g/L MCPA as the iso-octyl ester
	Spotlight Plus®	Carfentrazone-ethyl
	Starane™ Advanced	333g/L fluroxypyr present as the meptyl ester
	Stomp®	330g/L pendimethalin
	Stomp® Xtra	455g/L pendimethalin
	Striker®	240g/L oxyfluorfen
	Surflan™	500 g/L oryzalin
	Triflur Xcel®	600g/L trifluralin
TriflurX®	480g/L trifluralin	
Soluble Liquid (SL)	Kamba® 500	500g/L dicamba present as the dimethylamine salt
Soluble Liquid Glyphosate (SL-G)	Flame®	240g/L imazapic present as the ammonium salt
Aqueous Concentrate (AC)	Lontrel™	300g/L clopyralid present as the trisopropanolamine salt

## Compatible tank mix partners – Insecticides

Formulation type (code)	Example products	Active ingredients
Emulsifiable Concentrate (EC)	Chlorpyrifos 500	500g/L chlorpyrifos
	Astound® Duo	100g/L alpha cypermethrin
	Dimethoate	400g/L dimethoate
	Fenitrothion 1000	1000g/L fenitrothion
	Imidan®	150g/L phosmet (an anti-cholinesterase compound)
	Karate®	250g/L lambda-cyhalothrin
	Lorsban™ 500	500g/L chlorpyrifos (an anticholinesterase compound)
Aqueous Concentrate (AC)	Talstar®	250g/L bifenthrin
	Le-Mat®	290g/L omethoate (an anti-cholinesterase compound)

Roundup UltraMAX may be tank mixed with the herbicides, insecticides and adjuvants mentioned in this guide. Read and follow all label directions, restraints, plantback and withholding periods, and safety directions for the tank mix products. When mixing Roundup UltraMAX with multiple tank mix partners a minimum water volume of 50 L/ha is recommended and local advice should be sought. Do not allow neat tank mix partners to come into contact with each other. Always flush pump lines and mixing chambers with water between products. Contact your Sinochem Australia agent for further details.



## Tips for maximising the performance of Roundup UltraMAX

<b>Correct mixing order</b>	To ensure effective emulsion or suspension, it is critical that the correct mixing order is followed, as is good in-tank agitation when application/spraying is occurring. WDG or Dry Flowables need to be added to water first to enable them to disperse into individual particles. Ten minutes should be allowed for complete dispersion.
<b>Annual seedlings (growth stage)</b>	Apply Roundup UltraMAX when annual seedlings are at the 2-leaf stage or older. 1-leaf seedlings have limited translocation to roots and may not be controlled.
<b>Rate selection (plant age vs plant size)</b>	Be aware of false breaks where plants may have germinated and then cease growing as soil moisture levels decline. These weeds may look small above ground but may have well developed root systems as they chase moisture.
<b>Dust &amp; wheel tracks</b>	Dust will de-activate glyphosate. Do not apply Roundup UltraMAX to dust covered plants. Slow down when spraying in dusty paddocks.
<b>Jar tests</b>	To overcome potential costly and time-consuming problems, it is recommended a jar test be undertaken prior to tank mixing as an effective way of pre-screening mixes. This can be done prior to spraying by substituting mL with L/ha rates and mixing the same ratio and order as specified in the guide.
<b>Spraying stubble</b>	To maximise herbicide penetration through stubble, use high water rates with coarse droplet size and reduce speed whilst travelling in the same direction as the stubble was sown.
<b>Stress</b>	Periods of extreme climatic conditions (too hot/too dry) will induce stress on weeds. In response, weeds will "shut down" making the penetration and translocation of pesticides difficult. Only spray actively growing weeds using rates based on weed age and not weed size.
<b>Water rates</b>	A spray volume of 80 L/ha or less is recommended for broadacre application and 200 L/ha or less for application in orchards and vineyards. Water containing suspended clay or organic matter (e.g. from dams) may reduce performance.

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