

# UAP ADJUVANT RATE CHART

Surfactant Rate v/v	# Litres /100 Gal*	# Litres /1000 Litres	# Litres /800 Gal Tank*	
0.05%	0.19	0.5	1.5	<b>LI 700</b> mid rate to lower pH
0.125%	0.47	1.25	3.8	<b>Valid</b> rate for droplet size management
0.25%	0.95	2.5	7.6	<b>Super Spreader, LI 700</b> droplet spread rate
0.4%	1.51	4	12.1	<b>Choice WM</b> average rate for hard water
0.5%	1.89	5	15.1	<b>LI 700</b> penetrant rate with high water volume
1.00%	3.78	10	30.24	<b>MSO</b> rate for use with grass herbicides

## Guideline

3.78 litre jug of **Super Spreader** treats 400 gallons (1500 litres) of spray mixture (0.25%vv).

10 litre jug of **LI 700** will treat 1050 gallons (4000 litres) of spray mixture (0.25%vv).

10 litre jug of **Choice WM** will treat 650 gallons (2500 litres) of spray mixture (0.4% vv).

3.78 litre jug of **Valid** will treat 800 gallons (3000 litres) of spray mixture (0.125%vv).

10 litre jug of **MSO** will treat 250 gallons (950 litres) of spray mixture (1.0%).

ALWAYS REFER TO THE LABEL BEFORE USING

All products are registered trademarks of Lovelands Products Inc. 4754 02.08



# UNITED AGRI PRODUCTS SPRAY ADJUVANTS

<b>LI 700</b> 34 Dynes	<b>Multi Functional Spray Adjuvant</b> <ul style="list-style-type: none"><li>• Penetrant</li><li>• Spreader/wetter</li><li>• pH Adjuster</li><li>• Drift reduction</li></ul>	<b>Super Spreader</b> 33 Dynes	<b>Non-ionic Surfactant</b> <ul style="list-style-type: none"><li>• Excellent spreader/wetter</li><li>• Glycol based</li><li>• Convenient pack size</li></ul>	<b>Others</b> <i>All Clear</i> <i>MSO</i> <i>Fighter F</i> <i>Breaker</i> <i>Flush</i> <i>Ez Mix</i> <i>Trekker Trax</i> <i>Wintergreen</i> <i>XA Oil</i> <i>Dyes</i>
<b>Choice WM</b>	<b>Hard Water Conditioner</b> <ul style="list-style-type: none"><li>• Chelates Mg, CA &amp; Fe</li><li>• Concentrated formulation</li><li>• Glyphosate friendly</li><li>• pH Adjuster</li></ul>	<b>Valid</b>	<b>Drift Adjuvant</b> <ul style="list-style-type: none"><li>• Reduces particle fines</li><li>• Deposition aid</li><li>• Defoamer</li></ul>	

Surfactants use dyne ratings to determine how far each product will spread a droplet. The lower the dyne rating the more it spreads. A **dyne** is the force required to accelerate a mass of one gram at a rate of one centimeter per second squared.

**Critical Micelle Concentration (CMC)** is the point for every surfactant at which maximum surface tension reduction is achieved. Most surfactants reach this point at 0.1% v/v. Higher rates of 0.25% and 0.5% are commonly recommended to accomplish penetration improvement.