



# REFERENCE CHART

## ADJUVANTS





Adjuvant	Registered and Supported Products	Rate / 1000 L	Adjuvant Properties	Benefits and Other Information
 <p>80% Non-ionic Surfactant Proprietary LECI-TECH® Technology pH Reducing</p>	<p>ACETA 70 WP ASSURE II / ELEGANT / YUMA GL LAGON 480 EVEREST 3.0 / SIERRA 3.0 GLYPHOSATE LONTREL 360 MALATHION ORIU / FOLICUR 432 / HORNET RADIATE DIQUAT 240 PRODUCTS FULFILL 50 WG</p>	<p>900 mL 5 L 500 mL 2.5 L 2.5 - 5 L 2.5 L 600 mL 1.25 L 2.5 L 2.5 L 5 L</p>	<ul style="list-style-type: none"> <li>Acidifier (pH reduction)</li> <li>Deposition Aid/Sticker</li> <li>Drift Control</li> <li>Penetrant</li> <li>Spreader</li> </ul>	<ul style="list-style-type: none"> <li>Low-foaming formulation.</li> <li>Provides drift reduction, increased droplet adhesion.</li> <li>Excellent penetration and deposition and is user friendly.</li> <li>Lowers water pH ensuring pesticide efficiency.</li> </ul>
 <p>100% Non-ionic Surfactant Proprietary LECI-TECH® Technology Neutral pH</p>	<p>ACCENT / NICOSH ACCURATE / ALLY BARRICADE II AIM / CARFENTRAZONE MAX ASSURE II / ELEGANT / YUMA GL BARRICADE II DEPLOY / NUFARM BOOST / DRAFT DISTINCT EVEREST 3.0 / SIERRA 3.0 FMC PRECISION PAC MIXES EXPRESS ORIU / FOLICUR 432 / HORNET GLYPHOSATE NIMBLE NUANCE RIMSULFURON 25 / PRISM PHANTOM / PURSUIT PROLINE REFINE SG / REFINE EXTRA SORTAN SIMPLICITY GODRI VALTERA</p>	<p>2 L 2 L 2 L 2.5 L 5 L 2 L 2 L 1.25 L 2.5 L 2 L 2 L 1.25 L 2.5 - 5 L 2 L 2 L 2 L 2 L 2.5 L 1.25 L 2 L 2 L 2.5 L 1.25 L 2 L 2 L 2.5 L 2 L</p>	<ul style="list-style-type: none"> <li>Deposition Aid/Sticker</li> <li>Drift Control</li> <li>Penetrant</li> <li>Spreader</li> </ul>	<ul style="list-style-type: none"> <li>100% active spreader/penetrant.</li> <li>Odorless, low-foaming, neutral pH formulation.</li> <li>Provides drift reduction, increased droplet adhesion.</li> <li>Excellent penetration and deposition and is user friendly.</li> </ul>

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 <p>100% Non-ionic Surfactant Proprietary LECI-TECH® Technology Neutral pH</p>	<p>ARMEZON / IMPACT ASSURE II / ELEGANT / YUMA GL BASAGRAN / BENTA SUPER DAVAI / SOLO / NEXT 70 WDG HEAT WG ODYSSEY / DUET / JUDO POAST ULTRA PYTHON TRITON C</p>	<p>2.5 L 5 L 4 - 8 L 5 L 0.2 L/AC 5 L 10 L 2.5 L 10 L</p>	<ul style="list-style-type: none"> <li>Penetrant</li> <li>Deposition Aid/Sticker</li> <li>Drift Control</li> </ul>	<ul style="list-style-type: none"> <li>Enhanced penetration and droplet adhesion for increased plant uptake and optimum weed control.</li> <li>Premium emulsifiers and the addition of LECI-TECH provide uniform mixing and drift reduction.</li> <li>Surfactant to consider if weeds are stressed or weather has been dry resulting in thicker plant cuticle.</li> </ul>
 <p>Drift Reduction and Deposition Aid Integrated Defoamer Proprietary LECI-TECH® Technology</p>	<p>ANY HERBICIDE OR FUNGICIDE WHEN DRIFT REDUCTION AND/OR COVERAGE OPTIMIZATION ARE NEEDED AND USE OF OTHER LECI-TECH SURFACTANTS ARE NOT REGISTERED OR REQUIRED</p> <p><b>KEY HERBICIDES</b> GLUFOSINATE FORMULATIONS DICAMBA FORMULATIONS VOLATILE CHEMISTRY</p>	<p>1.25 L</p>	<ul style="list-style-type: none"> <li>Deposition Aid/Sticker</li> <li>Drift Control</li> <li>Antifoamer and Defoamer</li> </ul>	<ul style="list-style-type: none"> <li>Drift control adjuvant to enhance deposition, retention and control spray droplet size of agricultural and industrial chemicals.</li> <li>Non-ionic, non-foaming, and shear tolerant drift control agent containing suspended antifoam/defoamer.</li> </ul>
<p><b>SUPER SPREADER</b></p> <p>50% Non-ionic Surfactant</p>	<p>ACCENT / NICOSH ACCURATE / ALLY BARRICADE II DEPLOY/ NUFARM BOOST / DRAFT EVEREST 3.0 / SIERRA 3.0 FMC PRECISION PAC EXPRESS PRODUCTS MUSTER NIMBLE NUANCE PINNACLE RIMSULFURON 25 / PRISM REFINE SG</p>	<p>2 L 2 L 2 L 2 L 2.5 L 2 L 2 L 2 L 2 L 2 L 1 L 2 L 2 L</p>	<ul style="list-style-type: none"> <li>Slower drying time</li> <li>Excellent spreading and wetting properties</li> </ul>	<ul style="list-style-type: none"> <li>Contains glycol as the co-solvent helps maintain leaf wetness resulting in better uptake of the active ingredient.</li> <li>Glycol chemistry has less atomization and less evaporation than alcohol based surfactants.</li> </ul>
<p><b>XA Oil Concentrate</b></p> <p>83% Mineral Oil:7% Surfactant Blend</p>	<p>AATREX LIQUID 480 BASAGRAN /BENTA SUPER / BROADLOOM IMPACT ASSURE II / ELEGANT / YUMA</p>	<p>1.1 L/AC 10 L 2.5 L 5 L</p>	<ul style="list-style-type: none"> <li>Deposition Aid/Sticker</li> <li>Penetrant</li> </ul>	<ul style="list-style-type: none"> <li>Blend of light agricultural spray oil and a surfactant that is especially suited for use with Atrazine and other oil soluble herbicides.</li> </ul>

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 Water Conditioner	ANY GLYPHOSATE FORMULATION LIBERTY* WEAK ACID HERBICIDES	2.5-5 L	<ul style="list-style-type: none"> <li>Water Conditioner</li> <li>Multiple Sequestering &amp; Chelating agents</li> <li>Concentrated formulation</li> </ul>	<ul style="list-style-type: none"> <li>Reduces effects of hard water on herbicide performance.</li> <li>Bind multiple hard water cations, such as calcium, manganese, magnesium and potassium.</li> <li>Convenience of treating 1000 L of water with 2.5-5 L of Choice instead of using 20-30 L of AMS.</li> </ul>
 Premium, Ammonia-free, Tank Cleaner	Every spray tank/application equipment requiring a cleanout. Use after applying <b>phenoxy herbicides, GLYPHOSATE, SIMPLICITY, CARFENTRAZONE, SULFONYLUREA HERBICIDES</b> , any other residual pesticide.	250-500 ml / 100 L	<ul style="list-style-type: none"> <li>Total Sprayer Cleaner (tanks, hoses, nozzles, pump)</li> <li>Accesses and clean out those tough regions and parts of sprayer</li> <li>Works well with sticky chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Dual modes of action.</li> <li>Surfactant physically removes residues.</li> <li>Degradant chemically breaks down residues.</li> <li>Ammonia free formulation.</li> </ul>
 Ammonia Tank Cleaner	Ammonia cleaning agent for cleaning spray equipment after any spray application requiring a cleanout	500 ml / 100 L of water	<ul style="list-style-type: none"> <li>Tank Cleaner raises pH to solubilize SU herbicides in solution</li> </ul>	<ul style="list-style-type: none"> <li>Cleaning agent used for cleaning all pesticides from agricultural, commercial or lawn &amp; garden spraying equipment.</li> <li>FLUSH does not de-activate or breakdown the pesticide.</li> </ul>
 Premium Antifoam/defoamer	All tank mixes requiring de-foamer / anti-foamer	75-450 ml / 1000 L	<ul style="list-style-type: none"> <li>Dual component antifoam / de-foamer</li> <li>Quick knock down on foam</li> </ul>	<ul style="list-style-type: none"> <li>Controls foam in water, oil, fertilizer and pesticide spray mixtures.</li> <li>Reduces mixing time by facilitating faster and more accurate filling.</li> <li>De-foamer: Add as needed to achieve desired results.</li> </ul>





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LOVELAND PRODUCTS CANADA INC.

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Adjuvant	Registered and Supported Products	Rate / 1000 L	Adjuvant Properties	Benefits and Other Information
 Foam Marker	Foam marker used in spray application equipment to ensure accurate spray application and eliminate unnecessary field skips.	1 - 2 L / 100-150 L of water	<ul style="list-style-type: none"> <li>Foam</li> </ul>	<ul style="list-style-type: none"> <li>Easy to use.</li> <li>Foam marker, producing thick-bodied, long lasting foam.</li> <li>May be used with waters varying over a wide range of water hardness, mineral content, and impurities.</li> </ul>
 Spray Dye Indicator	Used to show where/how spray applications have been made. Used in industrial vegetation management industry and oil industry.	15-710 ml depending on tank size	<ul style="list-style-type: none"> <li>Spray Dye Indicator</li> </ul>	<ul style="list-style-type: none"> <li>High Concentrate Blue Spray Indicator Highly visible colour helps prevent skips, overlaps and helps minimize drift.</li> </ul>
 Masking Agent	Any pesticide application where objection to odor may occur.	8 - 24 ml/L of spray solution	<ul style="list-style-type: none"> <li>Odor Eliminator</li> <li>Non-ionic surfactants</li> <li>Other constituents ineffective as adjuvants</li> </ul>	<ul style="list-style-type: none"> <li>Concentrated fragrance used to mask objectionable odor.</li> <li>Fresh pine scent.</li> <li>Concentrated.</li> <li>Will not affect chemical efficacy.</li> <li>Plant safe.</li> </ul>
 Lake and Pond Colorant	Apply to bodies of water to transform pale or off colored to deep blue.	1 package per acre foot	<ul style="list-style-type: none"> <li>Water Colorant</li> </ul>	<ul style="list-style-type: none"> <li>Pre-measured.</li> <li>New low dust formulation.</li> <li>Safe and non-toxic.</li> <li>Formulation doesn't float on surface.</li> </ul>

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### Defining Adjuvant Properties

#### Improved Penetration & Spreading

Improves pesticide/foliar nutrient uptake, improves penetration through waxy cuticles and spreading over all leaf surface types.

#### Deposition Aid

Increases leaf spray droplet retention through reduced droplet bounce, shatter and roll-off.

#### Drift Reduction

Decreases drift susceptible spray fines and maintains mean droplet size in ideal range.

#### Hard Water Conditioning

Reduces antagonizing effects of hard water by binding on to positively charged (primarily Ca, Mg & Na) ions.

#### pH Reduction

Acidic properties lower water pH to slightly acidic values. This reduces decomposition of weak acid pesticides sensitive to alkaline (pH > 7) spray water.

#### Antifoam/Defoamer

Contains dimethylpolysiloxane and other effective defoaming agents to reduce/eliminate foam created from agitating pesticide mixtures.