

Li-700[®]

MULTI PURPOSE ADJUVANT

A high performance penetrating surfactant to optimise product performance of systemic and translaminar products and drift reduction

- ✓ Penetrant ✓ Surfactant
- ✓ Drift Retardant ✓ pH reduction (acidifier)

Ideal for use with:

- ✓ Glyphosate and other systemic herbicides
- ✓ PGRs, eg Regalis[®], chlormequat
- ✓ Systemic chlormequat and translaminar fungicides and insecticides
- ✓ Foliar fertilisers

Features

- Multiple modes of action - gets products 'into' the target by providing good spreading for thorough coverage and by opening 'pathways' in the leaf/crop waxy cuticle to increase uptake and translocation.
- Proven in 1000's of global trials and over a million treated hectares over the past decade - one of the most researched adjuvants in the world.
- Soft on the crop, excellent crop safety in multi-product tank mixing.
- Faster uptake into the plant = improved rainfastness.
- Drift reduction to dramatically reduce "off target" drift.
- Reduction of pH and enhancement of weak acid herbicides, such as glyphosate.



Benefits

- Superior coverage, uptake and translocation
- Acidify herbicides
- Equals:**
- Better product performance and rainfastness
- Plus:**
- Less drift and more target contact

Systemic and translaminar products require time to enter the plant and are subject to wash off. Li-700 takes products into the target faster, dramatically assisting uptake and translocation.





Li-700 Chemistry: Li-700 contains soya phospholipids and is a blend of Lecithin (derived from soyabeans), Propionic acid and various surfactants. Li-700 is unique. It is made of natural, renewable products. The Lecithin component acts by lifting the waxy platelets on leaves, increasing uptake.

MANY USES:

- Increases herbicide activity.
- Increases systemic insecticide and fungicide activity.
- Increases PGR uptake, eg Regalis in apples and Cycocel® in cereals and Super Sprout Stop™ in potatoes and onions.
- Increases nutrient uptake.
- Decreases driftable fines and gives more even spray droplets.
- Reduces pH and activates weak acid herbicides.

Li-700 Reduces Alkaline Hydrolysis

Li-700 creates a more favourable pH environment for herbicides such as glyphosate, MCPA, 2,4-D, chlorsulfuron, metsulfuron, chlorpyralid, dicamba etc. Several pesticide groups such as organophosphorus insecticides are degraded in alkaline water (alkaline hydrolysis). In the case of a dimethoate solution at pH9, the time taken to degrade 50% of the active ingredient is 48 minutes. In acidic conditions the corresponding time is 21 hours.

Li-700 is an acidifying agent that adjusts the pH of alkaline water to optimise product performance.

Directions for use

Li-700 may be used on wide variety of tree fruits, vines, cereals and vegetables.

Recommendations

Acidifying agent:

- Highly alkaline water (pH 8 or higher) - 60-120 mls / 100 L water
- Mildly alkaline water (pH 6.5-8) - 30-60 mls/100 L water

Note: Li-700 is an acidifier and may be chemically or physically incompatible with alkaline spray materials, eg copper sprays.

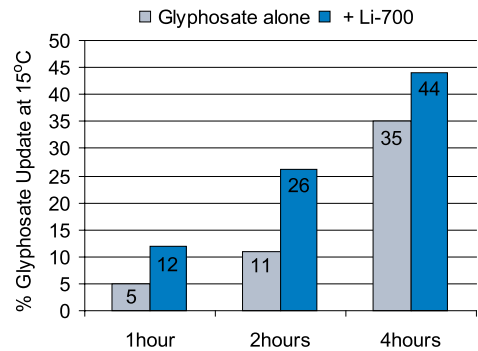
General Use:

- Apply 125-500 mls/100 L of spray mixture when used as a surfactant/penetrant/drift retardant.

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Li-700 Increases the Speed of Glyphosate uptake



Water pH	Water pH with 0.5% Li-700
8.5	4.2
8	4.2
7.5	4.2
7	4

Li-700 reduces drift - larger more even droplets give better coverage and much less drift.

Trial Silsoe Institute UK

