



# Validate<sup>®</sup>

**PENETRANT, SURFACTANT, DRIFT RETARDANT**

**A high performance penetrating surfactant to optimise the uptake of systemic and translaminar products and reduce drift.**

- ✓ PGRs eg Cycocel<sup>®</sup>, Terpal<sup>®</sup>, Moddus<sup>®</sup>
- ✓ Glyphosate, Sulphonylureas, Phenoxyes etc
- ✓ Systemic fungicides and insecticides
- ✓ Foliar fertilisers
- ✓ Dessiccants and defoliantes

## Features

- Sophistication - 3 adjuvant technologies in one
- Multi action ensures tank mix products deposit, spread, adhere, penetrate and translocate highly effectively.
- Excellent crop safety even in multi product mixes.
- Reduces drift and forms uniform droplets for better coverage.
- 100% active ingredients.
- Low foaming, low use rates.
- pH neutral.

## Validate Chemistry

Validate and Li-700<sup>®</sup> are similar technologies. Validate is used at half the rate, has much superior cold temperature stability, can be used with acidic products but does not have the pH reduction/acidification ability of Li-700.

Validate contains Lecithin Methyl Ester and Polyoxyethylene Ether. The Lecithin component (derived from soyabeans) temporarily lifts the waxy platelets of the plant cuticle allowing much more rapid uptake of product into the plant.

## Benefits

- Optimum spray uptake and coverage

### Equals:

- Better product performance and rainfastness

### Plus:

- Less drift and more target contact



# Validate®

**PENETRANT, SURFACTANT, DRIFT RETARDANT**

## USE VALIDATE:

- For ground or aerial application
- To aid the uptake of all systemic and translaminar products including:

**Herbicides:** Glyphosate, Sulphonylureas (except on scrub weeds), Penoxys, Dicamba and Mecoprop

**Insecticides:** Spinosad, Aba and Emamectin, Organophosphates

**Fungicides:** Strobilurins, DMI products, Metalaxyl, Copper Fungicides

**PGRs:** Chlormequat, Terpel, Moddus

**Dessiccants and Defoliants**

## DO NOT USE VALIDATE:

- On grapes and apples
- With products incompatible with oils
- With Moddus® on spring cereals

## PGRs

Validate technology has been used to enhance PGR activity on cereals on 100,000's of hectares of European cereals every year for many years and has - proven safety with multi product tank mixes and consistent performance.

## Directions for use (Read the label before use)

Validate may be used on wide variety of tree fruits, vines, cereals and vegetables. Do not add Validate at a rate that exceeds 2.5% of total spray volume.

## Recommendations

### General use:

**Fungicides/ Insecticides, Plant Growth Regulators, Foliar Nutrients:**

65-250 mls/100 L of spray mixture

### Herbicides, Defoliants, Desiccants:

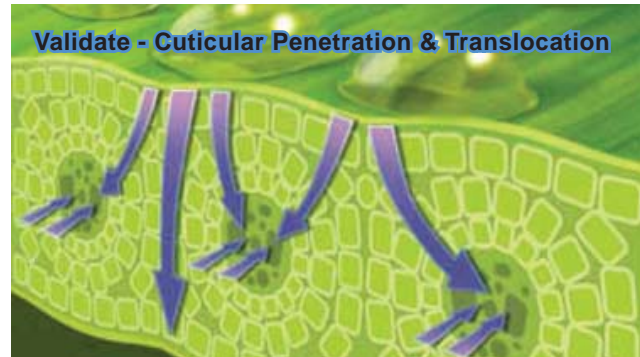
125-250 mls/100 L of spray mixture when used as a surfactant/penetrant

### Drift Retardant:

125-250 mls/100 L of spray mixture

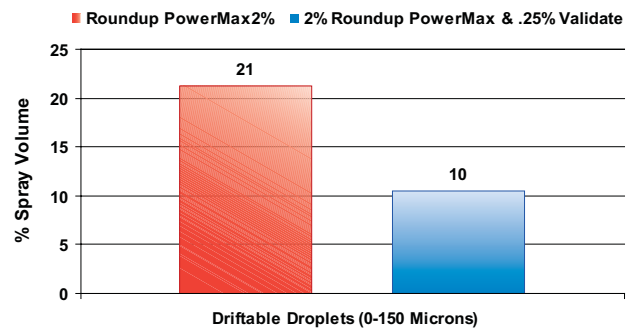
### High pH or hard water?

Add X-Change to soften water and reduce pH (acidify)



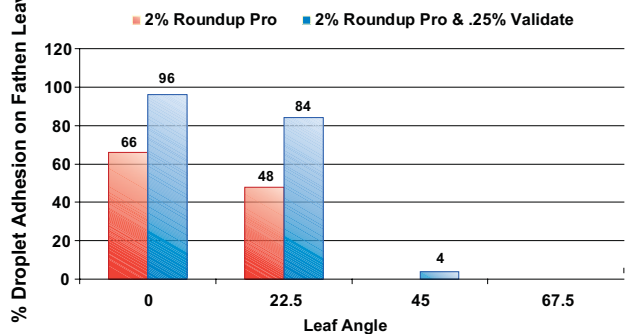
Via liposomes the same as Li700

Validate dramatically reduces driftable droplets

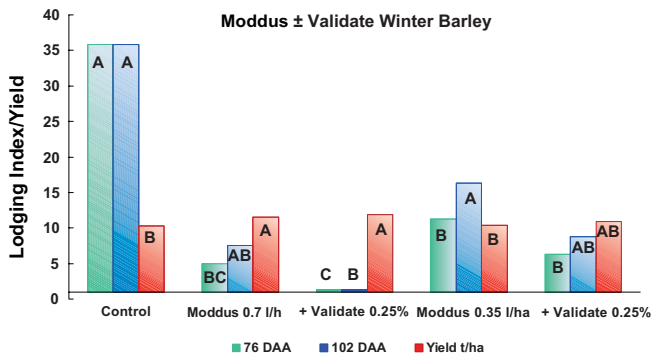


Driftable droplets can be lost to evaporation or drift to off target sites. Either way, it's product that isn't being delivered to the field

Validate sticks - FRI Trial on Roundup® retention on various leaf angles



Zabkiewicz; Forster, Forest Research, NZ, 2002



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