

An American Vanguard Company

# Lucid®

Sprayer Cleaner and Decontaminator

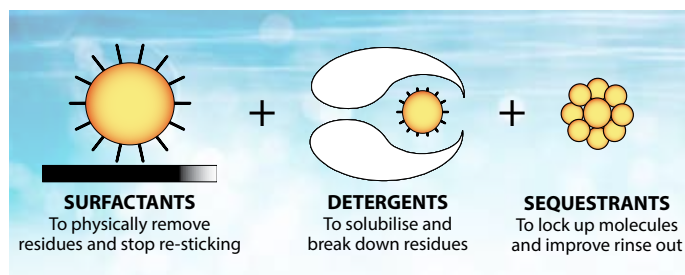
## Bringing the best science to sprayer decontamination

Contamination of sprayers and ineffective cleaning may lead to:

- Crop damage and yield loss
- Tank residues and breaches of MRLs
- Equipment corrosion
- Blocked filters and lines.

Lucid® removes damaging residues from your sprayer and provides unmatched cleaning and decontamination when used according to the product label.

### Lucid has 3-way action



### Tank decontamination is critical

New Zealand farmers grow a variety of crops, but often only use one spray rig. If sprayer decontamination is not carried out, there may be a high chance of crop damage affecting yield potential. Crop protection chemicals can bind to the inside of spray tanks, hoses, nozzles and filters. In many cases, flushing with water will not remove these residues. However, they may be mobilised by subsequent spray operations, risking crop damage.

With Lucid, farmers and spray operators don't need to use a whole range of different decontamination products, depending on which sprayed product they are trying to clean out. Confusion and costly mistakes can be avoided with one tank, filter, hose and nozzle cleaner for a long list of products.

### Lucid makes the choice so simple

Recommendations for cleaning spray equipment vary by product. These recommendations include the use of chlorine bleach (e.g. Glean herbicide\*, chlorsulfuron), ammonia (e.g. Chateau\*, flumioxazin) and laundry detergent (e.g. Hammer Force\*, carfentrazone).

Lucid makes the choice of tank cleaner simple. Not only will Lucid perform as well as the cleaning agent recommended on the labels of the products in the list adjacent, but laboratory data shows that Lucid will often do a better job. So you only need one tank cleaner for a range of products – Lucid.

#### Examples of actives<sup>†</sup> removed by Lucid

2,4-D amine	haloxyfop
2,4-D 2-ethylhexyl ester	imazethapyr
ametotradin & dimethomorph	imidacloprid
aminopyralid	iodosulfuron-methyl
atrazine	linuron
azoxystrobin	MCPA
bromacil	mefenpyr (safener)
bromoxynil	mesotrione
carfentrazone	methabenzthiazuron
chlorsulfuron	metribuzin
chlorthal-dimethyl (e.g. Dacthal®)	metsulfuron-methyl
clethodim	oxyfluorfen (e.g. Baron® WG)
clopyralid	paraquat
cyanazine	paraquat & diquat
dicamba	propiconazole
diflufenican	propyzamide
diflufenican & bromoxynil	prosulfocarb & s-metolachlor
dimethomorph	prothioconazole
diquat	prothioconazole & tebuconazole
diuron	pyroxasulfone
flazasulfuron	saflufenacil
flumetsulam	simazine
flumioxazin	s-metolachlor
fluroxypyr	tebuconazole
glufosinate	terbacil
glufosinate & carfentrazone	terbuthylazine
glyphosate	thidiazuron
halauxifen & clopyralid	trace element precipitates
halauxifen & florasulam	triclopyr
halauxifen & pyroxasulfone	

<sup>†</sup>Always read the label of the products to be cleaned.

### Lucid is easy to use

1. After spraying, immediately drain spray tank and hoses.
2. Follow product label precautions for operator protection.
3. Wash outside of tank with Lucid at the rate of 250 mL per 100 L water.
4. Wash visible residues inside tank with clean water and flush system with clean water. Use a volume of at least 10% of tank capacity.
5. Rinse or pressure clean the inside of all equipment with at least 1/10 of tank capacity of clean water. Visible residues should be removed from tank, then boom, lines and nozzles flushed. Drain all equipment completely.

**Note:** the entire spraying and chemical transfer system ("entire system") includes but is not limited to venturi style hoppers, pre-mix tanks, transfer systems, suction hoses, filters, tanks, tank lids, flush tanks, strainer baskets, valves, diaphragms, booms, spray lines and nozzles. These should be cleaned with Lucid.

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Following the completion of steps 1 to 5, proceed with either 6A or 6B:

Tank volume	Amount of Lucid to be used
500 L	1.25 L
1000 L	2.5L
2000 L	5 L
3000 L	7.5 L
4000 L	10 L
6000 L	15 L
8000 L	20 L

### 6A. TANKS WITH NO INTERNAL SPRINKLERS

- Half fill the tank with clean water and add Lucid at the rate of 250 mL per 100 L of tank capacity. For example, for a 1000 L tank, add 500 L of water and 2.5 L of Lucid.
- Start the pump with full agitation and mix well. Flush the Lucid solution through the entire system, ensuring that boom end valves are open and/or bungs removed for a complete boom treatment.
- Close boom end valves and/or replace bungs once Lucid solution is freely flowing from the ends of the booms. Top up the tank until filled with clean water and allow to stand for 15 minutes with the agitation running. Flush all of the solution out of the spray tank via the spray boom lines and nozzles.
- Nozzles, screens, filters and non-drip diaphragms should be removed and washed separately with Lucid solution at the rate of 25 mL in 10 L of water.
- Drain tank and flush the entire system with clean water.
- A susceptible plant should be treated with a sample of the final rinsate to determine whether residues remain.

**See NOTE.**

### 6B. TANKS WITH INTERNAL SPRINKLER SYSTEMS

**It is recommended that at least 2000 L of water is used as a minimum flush volume with 5 L of Lucid.**

- Calculate the amount of water required to flush the entire spraying system for 30 mins through the nozzles under normal operating pressure (the flush volume).  
(Example: 2000 L takes 34 minutes to spray out.)
- Add half of the flush volume of water to the tank. Add Lucid at the rate of 250 mL per 100 L of the total flush volume.  
(Example: for a flush volume of 2000 L, add 1000 L of water and 5 L of Lucid to the tank.)
- Start the pump with full agitation and mix well. Flush the Lucid solution through the entire system, ensuring that boom end valves are open and/or bungs removed for a complete boom treatment.

- Close boom end valves and/or replace bungs once Lucid solution is freely flowing from the ends of the booms.  
Add the other half of the flush volume of water to the tank.  
Run the agitation and internal sprinklers or tank washing nozzles for 30 minutes.  
Flush all of the solution out of the spray tank via the spray boom lines and nozzles.
- Nozzles, screens, filters and non-drip diaphragms should be removed and washed separately with Lucid solution at the rate of 25 mL in 10 L of water.
- Drain tank and flush the entire system with clean water.
- A susceptible plant should be treated with a sample of the final rinsate to determine whether residues remain.

**See NOTE.**

#### NOTE:

If the tank cleaning history is unknown or may have been compromised, or extra "sticky" product combinations have been used (e.g. carfentrazone-ethyl/glyphosate, flumioxazin/glyphosate, etc.), longer soaking is required with Lucid solution at the label rate to increase product residue removal. After standing for at least 15 minutes with the boom closed and agitation<sup>#</sup> running, all internal surfaces of the spray system including lines, filters, nozzles, etc. should then remain in contact with Lucid solution for at least 24 hours but no longer than 48 hours. Agitation<sup>#</sup> should be resumed for at least another 15 minutes before the system is flushed completely.  
<sup>#</sup>including internal sprinklers/tank cleaning nozzles where relevant.

All hoses should be inspected annually for both external and internal damage and cracking. The internal surfaces of old or perished hoses will hold significant levels of pesticide residues, so these hoses should be replaced immediately.



## User safety

Lucid offers a high degree of user safety when stored, transported and used according to the label.

Information and data referred to herein were generated using products and rates that were registered at the time, may include extracts from the product label and does not constitute the complete directions for use. Always read and follow product labels.

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