

VALOR® 500 WG HERBICIDE TECHNOTE

BEST PRACTICE FOR MIXING AND APPLICATION

Overview

Valor 500WG is a highly flexible Group 14 herbicide from Sumitomo Chemical with a variety of uses ranging from enhanced burndown with non-selective herbicides to residual weed control uses including in fallow, in sugarcane, prior to summer crops and extended control on channel banks. Like many herbicides correct mixing techniques can reduce the possibility of issues occurring during the filling and application process.

- Contains Flumioxazin 500g/kg
- User friendly WG (Wettable Granule) formulation
- Practical 350g water soluble bags with a foil outer
- 1.75kg shipper (5 x 350g)
- 10.5kg shipper (6 x large foil outers, each with 5 x 350g)



Valor WG is packed in convenient water-soluble bags with foil outers

Recommended Mixing Process

1. ENSURE CORRECT FILTERS ARE FITTED

To avoid nozzle blockages it is important to match the correct filter to the nozzles being used.

Blockages may occur with very fine filters. The use of in-line filters finer than 100 mesh is not recommended with Valor WG.

In-Line Filter Recommendations

Nozzle sizes	Filter colour (ISO)	Mesh size	Openings per inch	Particle size (microns)
04 or larger	Blue	50	50	297
025, 03	Yellow	80	80	177
01, 015, 02	Green	100	100	149

Equipment manufacturers often colour code filters for easy identification. In the table above the recommended ISO filter mesh sizes and colour coding is listed for the common nozzle sizes used in broadacre spraying.

2. MIX IN THE CORRECT ORDER

If Valor is being applied in a tank mix with other products then add it to the spray tank in the correct order as outlined in the table below.

Correct Mixing Order

Step 1	Fill the spray tank to 75% full with suitable water; Commence agitation
Step 2	Add any Water Conditioners e.g. Ammonium Sulphate, Li 700*
Step 3	Add any Wettable Powders (WP) and Water Soluble Powder (SP) products
Step 4	Add any Water Dispersible Granule (WG) products, Dry Flowable (DF) or Water Soluble Granules (SG) e.g. Valor (add slowly to allow time to dissolve)
Step 5	Add any Oil Dispersion (OD) formulations
Step 6	Ensure Valor is fully dispersed before proceeding
Step 7	Add any Suspension Concentrate (SC) or Capsule Suspension (CS) products eg. Valor EZE
Step 8	Add any Dispersible Concentrate (DC) or Suspo-Emulsion (SE) products
Step 9	Add any Emulsifiable Concentrate (EC) or Micro Emulsion (ME) products
Step 10	Add any Emulsion Oil in Water (EW) or Emulsifiable Suspension (ES) products
Step 11	Add any Soluble Liquids (SL) or Aqueous Concentrates (AC) e.g. Most Glyphosate and Paraquat formulations are SL
Step 12	Add any Adjuvants e.g. BS 1000*
Step 13	Add any oils last and fill the tank e.g. Uptake* and Hasten*

Always check all labels of products to be used in a tank mix for manufacturer's mixing recommendations before proceeding, and perform a bucket test for compatibility if unsure. Sumitomo Chemical recommend that the minimum number of products be mixed to perform the desired job as the more complex the tank mixture the more chance of incompatibility issues occurring.

Note: This information is not intended to replace product labels. Always read complete product labels before proceeding. Sumitomo labels available on <https://sumitomo-chem.com.au/>

3. ADD VALOR SLOWLY WITH STRONG AGITATION

When adding Valor WG to the spray tank it is important to ensure there is strong agitation and that the water-soluble packs are not all dumped into the spray tank all at once. It is recommended to add the water-soluble bags in a steady manner ensuring each one has started to dissolve prior to adding the next. If a granny pot (separate mixing vessel) is being used make sure the product is all fully dissolved in the pot before pumping into the main tank.

Photo: Undissolved water-soluble pack floating on water surface. If many packs are added together too quickly, undissolved packs can clump together causing issues such as uneven product distribution in the spray solution and filter blockages.



Photo: Spray rig with a separate granny-pot mixing tank. When pre-mixing Valor in a granny pot ensure it is fully dissolved and agitation is on before inducting into the main tank.



4. DECONTAMINATE SPRAY EQUIPMENT AFTER APPLICATION

Equipment with Valor residue remaining in the system may result in crop injury to the subsequently treated crop. Spray equipment, including mixing vessels and nurse tanks, must be cleaned following application and after Valor is applied, it is important to follow the decontamination steps as outlined on the Valor label.

To enhance removal of Valor, add a tank cleaner such as All Clear™ DS or Kleenup™ Granular in place of ammonia and follow the instructions on the product label for these products.

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