

POISON

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

KENSO AGCARE

SPEKTRUM 500 WG HERBICIDE

ACTIVE CONSTITUENT: 500 g/kg FLUMIOXAZIN

GROUP **14** HERBICIDE

For rapid knockdown and control of various grass and broadleaved weeds when mixed with certain glyphosate herbicides and for residual control of various grass and broadleaved weeds in vineyards and orchards.

Kenso Corporation (M) Sdn Bhd
Level 1, 98 Commercial Road,
Teneriffe QLD 4005
Phone (07) 3216 1188
www.kenso.com.au



IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS: 900 g (containing 10 sachets, each 90 gram in a water-soluble bag, which it is illegal to sell separately)
APVMA Approval No.: 89625/ 135871

KENSO AGCARE SPEKTRUM 500 WG HERBICIDE

STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs and fertilizers. Store in the closed, original container in a dry, cool well-ventilated area out of direct sunlight. DO NOT store in or expose product to wet conditions. Rough handling of product may cause breakage of water soluble bags, especially at low temperatures.

DO NOT dispose of undiluted chemical on-site. Break, crush or puncture sachets and containers and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see Storage and Disposal).

SAFETY DIRECTIONS

Poisonous if absorbed by skin contact or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Open sachets only as needed. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned over normal clothing, buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

WARNING: CONTAINS FLUMIOXAZIN WHICH CAUSES BIRTH DEFECTS IN LABORATORY ANIMALS. WOMEN OF CHILD BEARING AGE SHOULD AVOID CONTACT WITH FLUMIOXAZIN.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from www.kenso.com.au.

CONDITIONS OF SALE

Kenso Corporation (M) Sdn. Bhd. will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Kenso Corporation (M) Sdn. Bhd. is limited to the replacement of the goods or (at the option of Kenso Corporation (M) Sdn. Bhd.) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Kenso Corporation (M) Sdn. Bhd. within thirty days of delivery.

In a Transport Emergency
Dial **000** Police or Fire Brigade



Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: **MAY DAMAGE FERTILITY OR THE UNBORN CHILD.** *Precautionary:* Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. IF exposed or concerned: Get medical advice/attention. Store locked up.

Batch No.:

Date of Manufacture:

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PRECAUTIONS:

RE-ENTRY: Do not enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

SAFETY DIRECTIONS

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Police of Fire Brigade

* Not a registered trademark of Kenso



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DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply by aircraft.

DO NOT apply by a vertical sprayer.

DO NOT apply by misting machines.

DO NOT treat weeds under poor growing or dormant conditions (such as occur in drought, waterlogging, disease, insect damage or following frosts) as reduced control may result. Weeds should be actively growing at time of treatment.

DO NOT apply in high pH water (pH >7).

DO NOT allow the spray mix to stand overnight.

DO NOT irrigate up to the point of runoff for at least 3 days after application.

DO NOT apply for residual weed control until the start of the main rain season when significant soil wetting rain has occurred and more rain (at least 15mm) is likely within three weeks, or the soil can be irrigated with sprinklers.

DO NOT apply during the period after bud break, unless using shielded application equipment and applicator can ensure spray drift will not come in contact with crop fruit or foliage. Shielded applications during this time period should not be made with glyphosate or products containing glyphosate.

DO NOT apply to grapes, fruit or nut trees established less than 1 year.

DO NOT apply on bark that is still green.

DO NOT use in vineyards or orchards, or where the fruiting buds are below 40 cm above the soil. DO NOT apply to grapes that are not trellised or staked unless they are free standing.

DO NOT apply for residual control if a large population of big weeds is present or large amounts of trash – as these may prevent the chemical reaching the soil.

DO NOT disturb treated soil surface after application.

Grapevines, Pome fruit, Stone fruit, Citrus fruit, Tree nuts and Olives

RESTRAINTS (additional)

DO NOT apply in areas prone to strong winds or to powdery soils or soils that are susceptible to wind displacement unless sprinkler or microjet irrigation can be applied immediately after application to cover the entire sprayed area.

DO NOT apply to apples, pears and stone fruit in the period between bud break/green tip and final harvest. Only apply to dormant trees.

DO NOT apply to grapes, citrus and olives in the period between flowering and final harvest.

DO NOT apply to grapes, citrus, olives and nut trees during the period after bud break, unless using shielded application equipment and applicator can ensure spray drift will not come in contact with crop fruit or foliage. Shielded applications during this time period should not be made with glyphosate or products containing glyphosate.

DO NOT apply unless trees and vines have low branches removed to prevent contact with the spray.

DO NOT operate machinery such as mowers and sprayers that may blow treated dust onto leaves and fruitlets until at least 15 mm of sprinkler or microjet irrigation has been applied to the entire sprayed area or 15 mm of rain has fallen.

DO NOT mow the treated area between application and final harvest unless the operator can ensure that any dust from mowing will not drift on to foliage and fruit. Raising the mower height will reduce this risk.

DO NOT apply to farm roads or tracks where vehicle traffic may result in treated dust settling on to foliage and fruit.

DO NOT apply to grapes, fruit or nut trees established in the vineyard/orchard for less than 1 year.

DO NOT apply on bark that is still green.

DO NOT use in vineyards or orchards where the fruiting buds are below 40 cm above the soil.

DO NOT apply to grapes that are not trellised or staked unless they are free standing.

DO NOT apply for residual control if a large population of big weeds is present or large amounts of trash - as these may prevent the chemical reaching the soil. Application over light trash should be followed by at least 15mm of rain or sprinkler/microjet irrigation over the entire sprayed area within 12 hours to ensure good incorporation.

DO NOT replant dead trees, vines or bushes within 12 months of an application unless the top 3cm of soil from a 0.5m radius around the tree/vine/bush to be replaced is removed before the hole is dug. Then ensure when planting not to get any of this surface soil into the hole or up against the newly planted tree/vine/bush. DO NOT apply more than 2 applications of 700 g in one year.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a COARSE spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer Zone for boom spray

Application rate	Mandatory downwind buffer zone	
	Natural aquatic environment	Vegetation areas
Up to maximum label rate	15 metres	15 metres

WITHHOLDING PERIODS:

GRAZING:

DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION PRESENT AT THE TIME OF TREATMENT FOR 2 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT CROPS PLANTED FOLLOWING TREATMENT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

WINE AND TABLE GRAPES, POME FRUIT, STONE FRUIT, CITRUS FRUIT, NUT TREE CROPS, OLIVES: DO NOT GRAZE OR CUT TREATED WEEDS FOR STOCK FOOD BEFORE 22 WEEKS AFTER APPLICATION.

HARVEST:

NOT REQUIRED WHEN USED AS DIRECTED.

WINE AND TABLE GRAPES, POME FRUIT, STONE FRUIT, CITRUS FRUIT, NUT TREE CROPS, OLIVES: DO NOT HARVEST GRAPES, POME FRUIT, STONE FRUIT, CITRUS FRUIT, NUT TREE CROPS, OLIVES 14 WEEKS AFTER APPLICATION.

WARNING

DO NOT TOUCH OR WET the content of this sachet. Water-soluble packaging. Keep dry. Tear one end open and empty the contained water soluble bag directly into the spray tank without touching the bag. Add individual water soluble bags slowly. Before use read all directions on the outer pack. Not to be sold separately.

CROP SITUATION	WEEDS CONTROLLED	RATE (g/ha)	STATE	CRITICAL COMMENTS
<p>PRIOR TO SOWING Barley, chickpeas, cotton, faba beans, field peas, lentils, lupins, maize, mungbeans, oats, sorghum, soybeans, sunflowers and wheat</p>	<p>Follow the Directions for Use of the glyphosate or Paraquat/Diquat knockdown herbicides, and the addition of the SPEKTRUM 500 WG Herbicide will increase the speed of brownout and may improve final control of the following weeds: Bellvine (<i>Ipomoea plebeia</i>), Bladder Ketmia (<i>Hibiscus trionum</i>), Caltrop/Peach vine (<i>Tribulus terrestris</i>), Capeweed (<i>Arctotheca calendula</i>), Cow vine (<i>Ipomoea lonchophylla</i>), Doublegee (<i>Emex australis</i>), Erodium, False castor oil (<i>Datura stromonium</i>), Liverseed grass (<i>Urochloa panicoides</i>), Marshmallow (<i>Malva parviflora</i>), <i>Medicago</i> spp., Noogooro burr (<i>Xanthium occidentale</i>), Paterson's curse (<i>Echium plantagineum</i>), Seedling Lucerne (<i>Medicago sativa</i>), Shepherd's Purse (<i>Capsella bursa-pastoris</i>), Sowthistle (<i>Sonchus oleraceus</i>), Sunflower (<i>Helianthus annuus</i>), Redroot amaranth (<i>Amaranthus retroflexus</i>), Subterranean clover* (<i>Trifolium subterraneum</i>), Volunteer canola (<i>Brassica napus</i>), Wild radish (<i>Raphanus raphanistrum</i>), Wireweed (<i>Polygonum aviculare</i>), Spurred vetch (<i>Vicia monantha</i>), Turnip weed (<i>Rapistrum rugosum</i>), Annual polymeria (<i>Polymeria pusilla</i>), Dead nettle (<i>Lamium amplexicaule</i>), Black bindweed (<i>Fallopia convolvulus</i>), Red pigweed (<i>Portulaca oleracea</i>), Black pigweed (<i>Trianthema portulacastrum</i>), Tarvine (<i>Boerhavia dominii</i>) If one of the above weeds is the dominant weed, and there is no specific rate for it on the glyphosate product label, consult the label's generic annual-weed rate range. Select from within this range to suit the weed-stage, weed density, conditions etc of your situation. *Suppression only</p>	30 g/ha of Spektrum 500 WG plus the label rate of tank mix partner plus an adjuvant ¹	All States	<p>Observe the restraints, rates, mixing and general instructions on the knockdown herbicide product labels.</p> <p>Best results are obtained when applied to young weeds between the 2- and 6-leaf stage.</p> <p>Addition of Spektrum 500 WG Herbicide to knockdown products will increase the speed at which treated weeds develop visible symptoms of phytotoxicity (compared to the results achieved with tank mix partner products alone) and may improve the final control of certain broadleaved weeds.</p> <p>To ensure the uptake of Spektrum 500 WG Herbicide DO NOT sow crops for at least one hour after application. Always refer to the tank-mix partner product label in case a longer sowing interval is required.</p> <p>¹Always apply with *Hasten Spray Adjuvant or *Kwickin Spray Adjuvant at 0.5 – 1 L/100L (use the lower rate on smaller, actively growing weeds), or Koil Spray Adjuvant at 500 mL/100L.</p>
<p>Grapevines</p> <p>Pome fruit</p> <p>Stone fruit</p> <p>Citrus fruit</p> <p>Tree nuts Olives</p> <p>For residual control of broadleaf weeds and grasses</p>	<p>Annual ryegrass (<i>Lolium rigidum</i>), Barnyard grass (<i>Echinochloa colona</i>), Blackberry nightshade (<i>Solanum nigrum</i>), Bluetop (<i>Ageratum houstonianum</i>), Capeweed (<i>Arctotheca calendula</i>), Crassula (<i>Crassula colorata</i>), Creeping speedwell (<i>Veronica persica</i>), Crowsfoot (<i>Eleusine indica</i>), Dwarf nettle or stinging nettle (<i>Urtica urens</i>), Fat Hen (<i>Chenopodium album</i>), Feathertop Rhodes grass (<i>Chloris virgata</i>), Fleabane (<i>Conyza bonariensis</i>), Green summer grass (<i>Brachiaria subquadriflora</i>), Hog weed (<i>Polygonum aviculare</i>), Marshmallow (<i>Malva parviflora</i>), Milk thistle (<i>Sonchus oleraceus</i>), Pigweed (<i>Portulaca oleracea</i>), Small flowered mallow (<i>Modiola caroliniana</i>), Squirreltail fescue (<i>Vulpia bromoides</i>), Summer grass (<i>Digitaria ciliaris</i>), Toadrush (<i>Juncus bufonius</i>), Wild mustard (<i>Sinapis arvensis</i>), Wild radish (<i>Raphanus raphanistrum</i>), Wild rose (<i>Cleome aculeate</i>), Wild Turnip (<i>Brassica tournefortii</i>)</p>	560-700	All States	<p>Spektrum 500 WG needs at least 15 mm of irrigation or rain to activate, and therefore should be applied during the main rainfall period. Apply to bare soil using a directed spray at the base of the vines or tree crops. When large weeds are present use a knockdown herbicide at the full rate, allow weeds to die back and ensure trash is minimal before application of Spektrum 500 WG. Spektrum 500 WG can be applied with a knockdown herbicide over small weeds (<10 cm). The best application time for Spektrum 500 WG is during the period following final harvest up to bud break. Avoid direct or indirect spray contact to foliage and green bark (non-barked vines, with the exception of undesirable suckers).</p>

Note: The addition of Spektrum to glyphosate, paraquat or diquat will not help to control large weeds or weeds that have hardened up from stress or established big tap roots. Glyphosate resistant weeds may not be controlled by addition of Spektrum 500 WG Herbicide. See application section for recommendations to get the best results. NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

GENERAL INSTRUCTIONS

MIXING

SPEKTRUM 500 WG is a water dispersible granule formulation and is contained within a water soluble bag. The water soluble bags dissolve readily in water. DO NOT handle water soluble bags or expose to moisture because this may cause breakages. DO NOT touch bags with wet hands or place on wet surfaces. DO NOT damage the foil sachets that contain the water soluble bags. Protect unused sachets by keeping them in the original container. Open sachets only as needed.

To ensure even mixing, half-fill the spray tank with clean water. Tear open the necessary number of sachets and drop the water soluble bags contained in them into spray tank without touching the bags. Keep the agitation system engaged. Mix thoroughly until fully dissolved. Add the knockdown herbicide and remaining water. Mix thoroughly. Add spray additive near the end of the filling process to minimize foaming. Always maintain adequate agitation during application and use the tank mix promptly.

APPLICATION

Broadacre situation: Apply in a minimum of 80L spray solution per hectare.

Horticultural applications such as vineyards and tree crops: Apply in a minimum of 250L spray solution per hectare. Refer to the Directions for Use and General Instructions of the knockdown herbicide label. As SPEKTRUM is a contact herbicide, coverage is important. Performance of SPEKTRUM as a knockdown or with a partner on weeds or on volunteer cotton may be reduced with large droplets and poor coverage.

Air induction nozzles that deliver coarse droplets at high travelling speeds, low pressure and low water rates may reduce coverage and herbicide performance. Air induction nozzles can produce variable results when used with oil. Best results with SPEKTRUM are achieved with Coarse droplets produced by a wide angle flat fan or twin jet nozzles. If the partner herbicide required coarse droplets, then ensure high water volumes >80L/ha are used.

SPRAYER CLEANUP

When cleaning the spray equipment, wear cotton overalls buttoned to the neck and wrist and elbow-length chemical resistant gloves. After SPEKTRUM 500 WG is applied the following steps must be taken to clean the spray equipment.

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
3. Add 1 litre of 3% household ammonia or similar alkaline based tank cleaner for every 100 litres of water, circulate through sprayer for five minutes, then flush all hoses, booms, screens and nozzles for a minimum of fifteen minutes.

4. Drain tank completely.

5. Add enough clean water to spray tank to allow all hoses, booms, screens and nozzles to be flushed for two minutes.

6. Remove all nozzles and screens and rinse them in clean water.

Equipment with SPEKTRUM 500 WG residue remaining in the system may cause result in crop injury to the subsequently treated crop.

GROUP 14 HERBICIDE

RESISTANT WEEDS WARNING

SPEKTRUM 500 WG Herbicide is a member of the N-phenylphthalimides group of herbicides. The mode of action of SPEKTRUM 500 WG Herbicide is to inhibit protoporphyrinogen oxidase. For weed resistance management, SPEKTRUM 500 WG Herbicide is a Group 14 herbicide. Some naturally occurring weed biotypes resistant to SPEKTRUM 500 WG Herbicide and other Group 14 herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by SPEKTRUM 500 WG Herbicide or other Group 14 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Kenso Agcare Pty Ltd accepts no liability for any losses that may result from the failure of SPEKTRUM 500 WG Herbicide to control resistant weeds. Strategies to minimize the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant or local Department of Agriculture.

STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs and fertilizers. Store in the closed, original container in a dry, cool well-ventilated area out of direct sunlight. DO NOT store in or expose product to wet conditions. Rough handling of product may cause breakage of water soluble bags, especially at low temperatures. DO NOT dispose of undiluted chemical on-site. Break, crush or puncture sachets and containers and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see Storage and Disposal).