

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

TITAN

VITESSA

HERBICIDE

**ACTIVE CONSTITUENTS: 210g/L BROMOXYNIL as the OCTANOATE
37.5g/L PYRASULFOTOLE
CROP SAFENER: 9.4g/L MEFENPYR-DIETHYL
SOLVENT: 381g/L HYDROCARBON LIQUID**

GROUP 6|27 HERBICIDE

For the post-emergent control of certain broadleaf weeds in Wheat, Barley, Cereal Rye and Triticale as specified in the Directions For Use table.

APVMA Approval No.: 95628/146549

Pack Size: 10L-1000L



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| | |
|---|---|
| EC | Formulation Type Emulsifiable Concentrate |
| IN A TRANSPORT EMERGENCY • DIAL 000 • POLICE OR FIRE BRIGADE | |
| TRANSPORT AND HANDLING NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE FOR TRANSPORT BY ROAD AND RAIL | |

DIRECTIONS FOR USE

Restrains:

- DO NOT use if rainfall or irrigation is to occur within two hours of application.
- DO NOT apply to frost affected weeds or if frosts are imminent.
- DO NOT apply without adjuvant. See 'Use of Adjuvant/Wetting Agent' under 'General Instructions'.
- DO NOT apply to broadleaf crops eg. Canola, Chickpea, Clover, Faba Bean, Lupin, Lucerne, Medic, Vetch.
- DO NOT apply to any crop other than Wheat, Barley, Cereal Rye or Triticale. DO NOT apply to Oats.
- DO NOT apply using aircraft. DO NOT apply through a mister.

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 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 MEDIUM spray droplet size category.
- DO NOT apply using a boom height of more than 50-55cm above the ground.
- 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 Zones for Boom Sprayers | | | | |
|--------------------------------|-------------------------------------|--|------------------|-----------------|
| Application rate | Boom height above the target canopy | Mandatory downwind buffer zones (metres) | | |
| Up to maximum label rate | 0.55m or lower | Natural aquatic areas | Vegetation areas | Livestock areas |
| | | 20 | 40 | 250 |

| Buffer Zones for Boom Sprayers | | | |
|--------------------------------|--------------------------|-------------------------------------|--|
| Droplet size | Application rate | Boom height above the target canopy | Bystander areas – Mandatory downwind buffer zones (metres) |
| Medium | Up to maximum label rate | 0.5m or lower | 0 |
| | | 1.0m or lower | 20 |
| | 500mL/ha or lower | 0.5m or lower | 0 |
| | | 1.0 m or lower | 10 |

| CROP | WEED | STATE | WEED STAGE | RATE per ha | CRITICAL COMMENTS |
|---|----------------------|------------------------|----------------|--------------|---|
| General: DO NOT use the 500mL or 670mL/ha rate alone where excellent coverage is not possible. Increasing the rate up to 1.0L/ha or on relevant weeds tank mixing with TITAN LVE MCPA 570 Herbicide, will improve control in most situations where – target weeds overlap each other, non-target weeds overlap the target weed, ground or standing stubble impedes excellent coverage or crop canopy impedes excellent coverage of all target weeds. | | | | | |
| Wheat, Cereal Rye, Triticale, Barley – 2 leaf (Z12) to first node (Z31) | Bedstraw | ALL STATES | 2 up to 6 leaf | 670mL-1.0L | – |
| | Bifora | | 2 up to 5 leaf | 670mL-1.0L | – |
| | Bindweed | | 2 up to 4 leaf | 500mL | Subsequent germinations of Bindweed may occur after application. Refer to General Instructions – “Weed density” and “Weed emergence after application”. |
| | | | 2 up to 6 leaf | 670mL-1.0L | |
| | Capeweed | | 2 up to 6 leaf | 500mL-1.0L | Use the higher rate on higher density populations. |
| | Corn Gromwell | | 2 up to 6 leaf | 500mL-1.0L | Use the lower rate where good coverage of each weed can be achieved. |
| | Deadnettle | | 2 up to 6 leaf | 500mL-1.0L | – |
| | Doublegee/Spiny Emex | | 2 up to 4 leaf | 500mL-1.0L | Use the lower rate for good weed growing conditions. |
| | Fumitory | | 2 up to 6 leaf | 500mL-1.0L | Use the higher rate on higher density populations. Insufficient information exists on other Fumitory species. |
| | Indian Hedge Mustard | | 2 up to 8 leaf | 500mL-1.0L | – |
| | Paterson's Curse | | 2 up to 6 leaf | 500mL-1.0L | Use the lower rate where good coverage of each weed can be achieved. |
| | Prickly Lettuce | | 2 up to 6 leaf | 500mL – 1.0L | – |
| | Saffron Thistle | | 2 up to 6 leaf | 670mL – 1.0L | Use the lower rate where good coverage of each weed can be achieved. |
| | Shepherd's Purse | | 2 up to 6 leaf | 500mL-1.0L | – |
| | Annual Sowthistle | | 2 up to 8 leaf | 500mL-1.0L | – |
| | Turnip Weed | | 2 up to 8 leaf | 500mL-1.0L | – |
| | Volunteer Canola | | 2 up to 8 leaf | 500mL-1.0L | – |
| | Volunteer Chickpeas | | 2 up to 6 leaf | 500mL-1.0L | Suppression of Chickpeas – will suppress the growth of Chickpeas but may not adequately reduce plant numbers. |
| | Volunteer Faba Beans | | 2 up to 6 leaf | 500mL-1.0L | – |
| | Volunteer Field Peas | | 2 up to 8 leaf | 500mL | Suppression of Field Peas – will suppress the growth of Field Peas but may not adequately reduce plant numbers. |
| 670mL-1.0L | | Control of Field Peas. | | | |

| CROP | WEED | STATE | WEED STAGE | RATE per ha | CRITICAL COMMENTS |
|--|----------------------------|------------|----------------|-------------|--|
| Wheat, Cereal Rye, Triticale, Barley – 2 leaf (Z12) to first node (Z31) – <i>continued</i> | Volunteer Lentils | ALL STATES | 2 up to 6 leaf | 500mL-1.0L | Suppression of Lentils – will suppress the growth of Lentils but may not adequately reduce plant numbers. |
| | Volunteer Lupins | | 2 up to 8 leaf | 500mL-1.0L | Use the higher rate on higher density populations. |
| | Volunteer Seedling Lucerne | | 2 up to 6 leaf | 500mL-1.0L | – |
| | Volunteer Medic | | 2 up to 6 leaf | 500mL | Suppression of Medic – will suppress the growth of Medic but may not adequately reduce plant numbers. |
| | Volunteer Vetch | | 2 up to 6 leaf | 500mL-1.0L | Suppression of Vetch – will suppress the growth of Vetch but may not adequately reduce plant numbers. |
| | Wild Radish | | 2 up to 4 leaf | 500mL-670mL | DO NOT use the 500mL/ha or 670mL/ha rate alone where excellent coverage is not possible. Where target weeds overlap each other, non-target weeds overlap the target weed, ground or standing stubble impedes excellent coverage or crop canopy impedes excellent coverage of all target weeds; increasing the rate up to 1.0L/ha or on relevant weeds tank mixing with TITAN LVE MCPA 570 Herbicide, will improve control in most situations. Because high weed density may cause shading of weeds lower in the plant canopy or other factors may impede excellent herbicide leaf contact a follow-up application of a suitable herbicide may be required to control plants remaining after an application of TITAN Vitessa Herbicide. |
| | | | Up to 6 leaf | 670mL-1.0L | |
| | Wild Turnip | | 2 up to 8 leaf | 500mL-1.0L | – |
| | Wireweed | | 2 up to 6 leaf | 500mL | Suppression of Wireweed – will suppress the growth of Wireweed but may not adequately reduce plant numbers. |
| | | | | 670mL-1.0L | Control of Wireweed. |
| Yellow Burrweed | 2 up to 6 leaf | 600mL-1.0L | – | | |

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

DO NOT USE IN THE HOME GARDEN

WITHOLDING PERIODS:

Harvest: NOT REQUIRED WHEN USED AS DIRECTED

Grazing/Stockfood: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 6 WEEKS AFTER APPLICATION

GENERAL INSTRUCTIONS

TITAN Vitessa Herbicide is a selective nitrile (Group 6) and pyrazole (which inhibits the enzyme 4-HPPD – Group 27) herbicide. It is predominantly a foliar herbicide with limited activity via the soil.

TITAN Vitessa Herbicide will not control weeds that emerge after spraying. Results are best under good growing conditions and application to weeds or crop under stress should be avoided.

TITAN Vitessa Herbicide may substantially reduce the growth of many weeds rather than give complete plant kill. Refer to the Critical Comments in the Directions For Use Table above. Further information can be found in the following General Instructions.

Refer to the Critical Comments in the Directions For Use table above and further information in the following General Instructions, which includes

1. Adjuvant/Surfactant/Wetting Agent

2. Application

- a) Formulation type
- b) Mixing
- c) Spray equipment
- d) Spray clean up

3. Other factors influencing weed control

- a) Application time of day
- b) Effect of climate
- c) Weed density
- d) Weed emergence after application
- e) Weed stage

4. Compatibility

5. Crop safety

6. Crop rotation recommendations

It is important that all parts of these General Instructions are read in conjunction with the Directions For Use table.

1. Adjuvant/Surfactant/Wetting Agent

A recommended adjuvant must be used in conjunction with TITAN Vitessa Herbicide or with TITAN Vitessa Herbicide tank mixtures with other products in Wheat, Barley, Cereal Rye or Triticale. The recommended adjuvants are TITAN Duelling Spray Adjuvant at 1% v/v, TITAN Paraffin Oil 471 Adjuvant at 0.75% v/v or TITAN Paraffinic Spraying Oil at 0.5% v/v. The use of TITAN Wetter 1000 Wetting Agent or ammonium sulphate may result in reduced weed control

from TITAN Vitessa Herbicide. Consult TITAN AG Pty Ltd for information on other Adjuvants/Surfactants/Wetting Agents. For mixtures with compatible products refer to the table Wetting Agent/Adjuvant Recommendation with Compatible Products in the Compatibility section (section 4) below.

2. Application

Ensure that complete and even spray coverage of all weeds is achieved. Please refer also to the SPRAY DRIFT RESTRAINTS and MANDATORY NO-SPRAY ZONES with the DIRECTIONS FOR USE section of this label. TITAN Vitessa Herbicide contains bromoxynil. For reliable control, good contact must be made with each plant. In dense weed or crop stands, good control may not be achieved even when the product rate and water volume are increased. In these situations a later clean-up spray of a suitable herbicide of a different Mode of Action group to TITAN Vitessa Herbicide is recommended.

a) **Formulation type** – TITAN Vitessa Herbicide is formulated as an emulsifiable concentrate (EC).

b) Mixing

Half fill the spray tank with water, then with agitators in motion, add any compatible granular products if required then add the correct amount of TITAN Vitessa Herbicide directly into the spray tank. Add other relevant compatible herbicides, then adjuvant as recommended. Complete filling the tank with agitators in motion. Agitation must continue before and during spraying.

c) Spraying Equipment

Ground Sprayers – USE ONLY low boom equipment set up to provide good coverage of weeds within the crop canopy. The use of a nozzle that will deliver a MEDIUM spray quality as defined by ASABE S572 Standard or BCPC Guideline is recommended. The use of flat fan nozzles is recommended. It is recommended that 50 to 150L water/ha is applied. High spray volumes are required in the case of advanced weeds (greater than 4 leaf at time of application), heavy weed density (causing shading of weeds) or heavy crop canopy (causing shading of weeds), as adequate coverage is critical to ensure control.

Aircraft – DO NOT apply using aircraft.

Misters – DO NOT apply TITAN Vitessa Herbicide through a mister.

d) Sprayer Clean Up

The sprayer must be thoroughly cleaned before being used again to spray crops other than winter cereals.

Cleaning procedure: Ensure that the following operation is carried



out in an area that is clear of waterways, desirable vegetation and tree roots and preferably in an area where drainings can be contained. Fill the boom tank with water, rinse and repeat this procedure (ie. fill and rinse the tank twice) then remove and clean all filters (inline and nozzle) separately. A boom cleaner should be used in this process to provide an effective cleaning technique for TITAN Vitessa Herbicide. This should be done immediately after spraying is finished to prevent dried residues adhering to the tank/lines/filters. When a tank mixture of TITAN Vitessa Herbicide with a companion product has been used, more rigorous cleaning of the sprayer may be required than when using TITAN Vitessa Herbicide alone. Refer to the companion product label for appropriate instructions in this event.

3. Other factors influencing weed control

- a) **Application time of day:** Optimum performance of TITAN Vitessa Herbicide occurs when it is applied in warmer temperature with high light intensity. To maximise efficacy avoid application of TITAN Vitessa Herbicide within 1 hour of sunset, or at night, particularly if followed by low overnight temperatures.
- b) **Effect of climate activity:** TITAN Vitessa Herbicide will be reduced if weeds are stressed. Optimum results will be obtained if good temperature, good light intensity and good soil moisture exists at application.

Rainfast period

DO NOT use if rainfall or irrigation is to occur within 2 hours of application.

Temperature

DO NOT apply to frost affected weeds or if frosts are imminent. Frost causes stress on weeds and could result in decreased weed control. To ensure optimum results TITAN Vitessa Herbicide should only be applied once the weeds are no longer under stress from the frost conditions. The use of TITAN Vitessa Herbicide at 1L/ha may provide better control of weeds during frosty periods however, good control may not be obtained.

- c) **Weed density:** TITAN Vitessa Herbicide contains bromoxynil as one of its components. For reliable control good contact must be made with each plant. High weed density may cause shading of plants lower in the weed canopy. In dense weed or crop stands good control may not

be achieved even when the TITAN Vitessa Herbicide rate is increased. A follow-up application of a suitable herbicide may be required to control remaining plants. For the control of dense Wild Radish populations increasing the rate to 1L/ha or the addition of TITAN LVE MCPA 570 Herbicide will improve control in most situations. Because high weed density may cause shading of weeds lower in the plant canopy a follow-up application of a suitable herbicide may be required to control plants remaining after an application of TITAN Vitessa Herbicide. Where crop or weed density is high, water volume should be increased as recommended in the Application section of this label above.

- d) **Weed emergence after application:** TITAN Vitessa Herbicide will not control following germinations of weeds. A follow-up application of a suitable herbicide may be required to control remaining plants or plants that emerge after application.

e) Weed stage

Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as:

- * high crop or weed density;
- * later germinations;
- * abnormal weed growth including early flowering – higher rates of TITAN Vitessa Herbicide (up to 1L/ha) may be required.

TITAN Vitessa Herbicide may not effectively control:

- * regrowth of suppressed weeds;
- * transplanted weeds;
- * weeds growing under stress from previous herbicide applications.

4. Compatibility

Compatibility trials have not been conducted using TITAN Vitessa Herbicide at 1.0L/ha. Recommended compatibilities refer to TITAN Vitessa Herbicide at 500mL or 670mL/ha only. Observe the more rigorous of the crop and crop safety restrictions for the TITAN Vitessa Herbicide and companion herbicide labels when tank mixing. When mixing with other herbicides increased crop effects may occur. Under normal growing conditions this should not result in any yield loss. For the latest information on mixing TITAN Vitessa Herbicide with other products, contact TITAN AG Pty Ltd.

| Mix partner | Mix rate | TITAN Vitessa Herbicide Rate | Compatibility | Critical Comments |
|------------------------------------|--------------------------|------------------------------|------------------------|--|
| TITAN Clopyralid 750SG Herbicide | Label rates | Up to 670mL/ha | | – |
| TITAN LVE MCPA 570 Herbicide | to 500mL/ha | Up to 670mL/ha | | – |
| TITAN Metsulfuron 600 WG Herbicide | 5g/ha | Up to 670mL/ha | | TITAN Metsulfuron 600 WG Herbicide may reduce the speed of control from TITAN Vitessa Herbicide. TITAN Metsulfuron 600 WG Herbicide may reduce the control of Bifora from TITAN Vitessa Herbicide. |
| | | | Annual Ryegrass | |
| TITAN Tralkoxydim 400 WG Herbicide | – | – | | There is no field data available for TITAN Vitessa Herbicide plus TITAN Tralkoxydim 400 WG Herbicide mixes on Annual Ryegrass. |
| Atlantis OD | 330mL/ha | Up to 670mL/ha | | – |
| TITAN Pinoxaden 100EC Herbicide | Label rates for mixtures | Up to 670mL/ha | | – |
| | | | Wild Oats | |
| TITAN Tralkoxydim 400 WG Herbicide | Label rates | Up to 670mL/ha | | Constant agitation required, on standing a sediment will form. |
| Atlantis OD | 330mL/ha | Up to 670mL/ha | | – |
| TITAN Pinoxaden 100EC Herbicide | Label rates for mixtures | Up to 670mL/ha | | – |
| TITAN Clodinafop 240 EC Herbicide | 85mL/ha | Up to 670mL/ha | | Insufficient data available at lower TITAN Clodinafop 240 EC Herbicide rates. Contact TITAN AG Pty Ltd for further information. |
| | | | Brome Grass | |
| Atlantis OD Up to | Label rates | 500mL/ha | | – |

INCOMPATIBLE PRODUCTS

Products that are NOT compatible with TITAN Vitessa Herbicide must be applied separately. In this situation, it is recommended to apply TITAN Vitessa Herbicide first and then allow at least 10 days between its application and application of the incompatible product.

TRACE ELEMENTS

Reduced efficacy from TITAN Vitessa Herbicide will occur when mixed with trace elements. It is recommended to apply TITAN Vitessa Herbicide first and then allow at least 10 days between its application and application of any trace element.

- Green – No loss of efficacy or adverse crop effects
- Yellow – Some reduction in efficacy or the speed of action may occur
- Red – Not compatible, efficacy reductions or adverse crop effects may occur



Physically compatible products: The following products have been tested for their physical compatibility only with TITAN Vitessa Herbicide (laboratory jar test). In field testing has not been conducted to determine if there are adverse effects on the target crop or adverse effects on the efficacy of the products that are mixed. It is recommended that a small test area is treated before application to the entire crop.

The name of the product is listed followed by an appropriate mix rate for that product with up to 670mL/ha TITAN Vitessa Herbicide: TITAN Diclofop-Methyl 500 EC Selective Herbicide (label rates, see Note 1), Hussar OD (100mL/ha, see Note 1), TITAN Dimethoate 400 Systemic Insecticide (85mL/ha), TITAN Tebuconazole 430 SC Fungicide (label rates), TITAN Azoxystrobin Extra Fungicide (up to 800mL/ha, see Note 2), TITAN Triadimefon 500 WG Fungicide (250mL L/ha).

Note 1 – Constant agitation required, on standing a sediment will form.

Note 2 – Constant agitation required, on standing irreversible settlement will occur.

| Wetting Agent/Adjuvant recommendation with compatible products | | |
|--|---|--|
| TITAN Vitessa Herbicide mix-partner | Recommended surfactant/adjuvant | Critical Comments |
| TITAN Tralkoxydim 400 WG Herbicide | TITAN Paraffin Oil 471 Adjuvant 0.75% v/v | DO NOT use a non-ionic surfactant, eg. TITAN Wetter 1000 Wetting Agent when TITAN Vitessa Herbicide is applied alone or with any other product as reduced efficacy or speed of kill may result. DO NOT use ammonium sulphate as the adjuvant for TITAN Vitessa Herbicide. |
| Atlantis OD | TITAN Duelling Spray Adjuvant 1% v/v | |
| TITAN Pinoxaden 100EC Herbicide | TITAN Duelling Spray Adjuvant 0.5% v/v | |
| TITAN Diclofop-Methyl 500 EC Selective Herbicide | TITAN Duelling Spray Adjuvant 1% v/v | |
| Hussar OD | TITAN Duelling Spray Adjuvant 1% v/v | |
| TITAN Clodinafop 240 EC Herbicide | TITAN Duelling Spray Adjuvant 0.5% v/v TITAN Paraffinic Spray Oil 0.5% v/v | |
| For advice on the compatibility of other products, contact the manufacturer, TITAN AG Pty Ltd. | | |

5. Crop Safety

TITAN Vitessa Herbicide shows good crop selectivity when used as directed. The following will help minimise crop effects.

Selective crops

- DO NOT apply to crops undersown with Legumes.
- DO NOT apply to any crop other than Wheat, Barley, Cereal Rye or Triticale.

Recommended growth stage

- Wheat, Barley, Triticale and Cereal Rye should be a minimum 2 leaf stage (Z12 growth stage), before application of TITAN Vitessa Herbicide.
- DO NOT apply later than Z31 (first node). Although TITAN Vitessa Herbicide may be applied to Z31, shading of weeds from advanced crop means that TITAN Vitessa Herbicide should be applied onto young crop.
- Optimum results are achieved when sprayed 4-6 weeks after sowing onto maximum 4 leaf weeds when cereals have usually 2 to 5 leaves (Z12-Z21).

Agronomic and environmental factors

- Some crop yellowing and growth retardation may occur within 2 to 5 weeks of application. Where TITAN Vitessa Herbicide up to 670mL/ha is applied as recommended, any effects will be negligible and rapidly dissipate.
- Growth retardation may be increased if the crop is affected by root disease (eg. Cereal Cyst Nematode, Rhizoctonia, Take-all (Haydie)), nutritional stress, waterlogging, drought stress, excessively cold conditions or previous herbicide treatment.
- DO NOT apply to cereals that are physically damaged (eg. by hail, wind, insect attack).
- DO NOT apply to crops not actively growing due to cold and wet conditions or drought stress.

6. Crop Rotation Recommendations

Minimum recropping intervals apply for all crops following TITAN Vitessa Herbicide application. Recropping intervals are dependent on the rate of product applied.

Areas that receive double rates (boom overlaps) may show symptoms of damage in sensitive crops. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations. For advice on crops not listed below, contact the manufacturer, TITAN AG Pty Ltd.

Rainfall/irrigation – winter and summer recropping

For crops listed as requiring a minimum amount of rainfall or irrigation in combination with a set recropping interval: Rainfall and irrigation totalling less than the stated amount in the tables below following use of TITAN Vitessa Herbicide may result in an extended recropping interval. Patchy rain, with extended dry periods may also result in extended recropping intervals, even when rainfall exceeds the minimum stated. If in doubt, seek specialist advice. Dry conditions or less than the recommended minimum rainfall: TITAN Vitessa Herbicide breaks down by microbial degradation, which is favoured by warm, moist, aerobic soil. Where less than the minimum rain has fallen between application and planting the next year, it is recommended to only plant a cereal crop.

pH

Application to soils with a pH greater than 8.4 (soil in water) has not been tested and is not recommended. Recropping symptoms are reduced on acid soils (pH < 6.5 soil in water, pH < 6.0 in CaCl₂).

TANK MIXTURE WITH OTHER HERBICIDES

In the event that a tank mixture of TITAN Vitessa Herbicide and another herbicide has been used, the longer recropping interval of the tank mix products should be observed for the crop in question.

| Crop – winter sown | TITAN Vitessa Herbicide rate applied | Minimum rainfall/irrigation required | Recropping interval |
|---|--------------------------------------|--------------------------------------|---------------------|
| Wheat, Barley, Oat, Triticale | up to 1.0L/ha | – | 3 weeks |
| Canola, Clover*, Chickpea, Faba Bean*, Field Pea, Lentil*, Lucerne, Lupin, Vetch | 670mL/ha | 250 | 9 months |
| Alkaline or neutral soils Canola, Chickpea, Field Pea, Lucerne, Lupin, Vetch | 1.0L/ha** | 250 | – |
| Acid soils (pH < 6.5 in water, pH < 6.0 in CaCl ₂) Canola, Chickpea, Clover, Faba Bean, Field Pea, Lentil, Lucerne, Lupin, Medic, Vetch | 1.0L/ha | 250 | – |
| Alkaline or neutral soils Lentil, Medic Note: On soils with free limestone, do NOT use TITAN Vitessa Herbicide above 670mL/ha unless substantial biomass reduction (Medic) or discolouration (Lentil, Medic) is accepted in areas of boom overlap. | 1.0L/ha (see note in Crop column) | 500 | 21 months |

For winter recropping, transient biomass reduction or discolouration may occur where recropped following TITAN Vitessa Herbicide application. When used as directed, grain yield is not compromised where transient biomass reduction or discolouration occurs.

* Where TITAN Vitessa Herbicide at 670mL/ha is applied on alkaline soils, recropping areas that receive double rates (boom overlaps) may show increased symptoms of damage in crops such as Clover, Faba Bean and Lentil. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations.

** Where TITAN Vitessa Herbicide at 1.0L/ha is applied on alkaline soils, recropping areas that receive double rates (boom overlaps) may show increased symptoms of damage in crops such as Canola, Field Pea, Lentil, Lupin, Medic and Vetch. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction or reduced yields in some situations.



| Crop – summer sown | TITAN Vitessa Herbicide rate applied | Minimum rainfall required | Recropping interval |
|----------------------------|--------------------------------------|---------------------------|---------------------|
| Maize, Sorghum | up to 1.0L/ha | – | 8 weeks |
| Cotton, Soybean, Sunflower | up to 670mL/ha | 300mm | 14 months |
| Mung Bean | up to 1.0L/ha*** | 300mm | 14 months |
| Cotton, Soybean, Sunflower | up to 1.0L/ha*** | 500mm | 14 months |

For summer recropping, transient biomass reduction or discolouration may occur where recropped after TITAN Vitessa Herbicide application. When used as directed, grain yield is not compromised where transient biomass reduction or discolouration occurs.

*** Where TITAN Vitessa Herbicide at 1.0L/ha is applied, recropping areas that receive double rates (boom overlaps) may show increased symptoms of damage. This is generally restricted to discolouration (bleaching) of the crop but may also result in biomass reduction in some situations.

RESISTANT WEEDS WARNING

TITAN Vitessa Herbicide contains members of the pyrazolone (pyrasulfotole) and nitrile (bromoxynil) groups of herbicides. TITAN Vitessa Herbicide is a herbicide which inhibits 4-hydroxyphenylpyruvate dioxygenase (4-HPPD) and also acts by inhibition of photosynthesis at photosystem II in plant cells. For weed resistance management TITAN Vitessa Herbicide is a Group 6 and Group 27 herbicide. Some naturally-occurring weed biotypes resistant to TITAN Vitessa Herbicide and other Group 6 and Group 27 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 may not be controlled by TITAN Vitessa Herbicide or other Group 6 and Group 27 herbicides. Since occurrence of resistant weeds is difficult to detect prior to use, TITAN Ag Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Vitessa Herbicide to control resistant weeds.

DO NOT rely exclusively on TITAN Vitessa Herbicide for weed control. Use as part of an integrated weed management program involving herbicides with other modes of action and non-chemical methods of control. CropLife Australia resistance management strategies are available from your local agricultural chemical supplier or at the CropLife Australia website (www.croplife.org.au). Refer to these strategies for details of how to manage the build up of resistant weeds on your farm.

PRECAUTIONS

Re-entry Statement: DO NOT enter treated areas until 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 LIVESTOCK

DO NOT apply if there are livestock, pasture or any land that is producing feed for livestock downwind from the application area and within the mandatory no-spray zone listed in the Restraints above. This no-spray zone is designed to assist in management of residues in livestock commodities at slaughter.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with this product or used containers. DO NOT apply when there are aquatic and wetland areas, including aquacultural ponds or surface streams and rivers, downwind from the application area and within the mandatory no-spray zone listed in the Restraints above.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. DO NOT apply if there are sensitive crops, gardens and landscaping vegetation or protected non-target vegetation within the mandatory no-spray zone listed in the Restraints above.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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.

GROUP **6/27** HERBICIDE

For drumMUSTER containers: This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple-rinse container for disposal. Dispose of rinsate or any undiluted chemical according to state legislative requirements. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately.

For Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Harmful if swallowed, absorbed by skin contact and inhaled. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. DO NOT inhale vapour. When using together with other products, consult their label safety directions. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and washable hat, elbow-length chemical resistant gloves and goggles and half facepiece respirator. If applying by boomspray equipment (open cab) wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and goggles. Wash hands after use. After each day's use, wash gloves, goggles, respirator and if rubber wash with detergent and warm water and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766. If swallowed, do NOT induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Vitessa Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects. **Precautionary Statements:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. **IF SWALLOWED:** Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. **IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **IF exposed or concerned:** Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use CO₂, powder or water spray to extinguish. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

