CAUTION

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

Genfarm Panzer Premier Herbicide

ACTIVE CONSTITUENT: 470g/L GLYPHOSATE present as the isopropylamine salt

GROUP M HERBICIDE

A non-selective foliar herbicide for the control of a wide range of annual and perennial grasses and broadleaved weeds as per the Directions for Use Table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS: 20 Litres

(100L, 110L, 200L, 1000L)

Genfarm Crop Protection Pty Ltd Suite 2, Level 3, 64 Talavera Road, Macquarie Park, NSW, 2113 Tel: (02) 9889 5400

STORAGE AND DISPOSAL

Store in the closed original container in a cool well-ventilated area. Do not store for prolonged periods in direct sunlight.

Do not store the product in galvanised steel or unlined steel containers, as the product may react to produce hydrogen gas, which can form a combustible gas mixture that can be flashed by ignition sources.

Triple or preferably, pressure 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, and or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

For refillable containers (100L, 110L, 120L and 1000L only): Empty containers fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Product will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing product for use wear elbow length PVC gloves and face shield or goggles. When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia: 13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which can be obtained from the supplier.

CONDITIONS OF SALE

The use of this product is beyond the control of Genfarm Crop Protection Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Genfarm Crop Protection Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Genfarm Crop Protection Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

For specialist advice in an emergency dial 1 800 033 111 24 hours Australia wide.

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Batch No: DOM:

APVMA Approval No: 59552/20/0305

59552 /100/0305 59552/200/0305 59552/1000/0305 59552/110L/0306 59552/120L/0306

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Genfarm **Panzer Premier** Herbicide

ACTIVE CONSTITUENT: 470g/L GLYPHOSATE present as the isopropylamine salt

> М GROUP | HERBICIDE

A non-selective foliar herbicide for the control of a wide range of annual and perennial greases and broadleaved weeds as per the **Directions for Use Table.**

IMPORTANT: READ THIS LEAFLET BEFORE USE

Genfarm Crop Protection Pty Ltd Suite 2, Level 3, 64 Talavera Road, Macquarie Park, **NSW, 2113**

Tel: (02) 9889 5400

DIRECTIONS FOR USE

Restraints

DO NOT apply if rainfall is expected within 6 hours. Heavy rainfall within 2 hours after application may wash off the chemical and repeat treatment would be required

DO NOT graze or cultivate for 1 day after application (annual weeds) or 7 days (perennial weeds) to ensure herbicide absorption.

DO NOT apply to weeds if stressed by drought, frost, etc.

CONSERVATION TILLAGE

CONSERVATION	N TILLAGE			
CROP/	WEEDS CONTROLLED	STATE (S)	RATE/ha	CRITICAL COMMENTS
SITUATION				
Winter crop or	Barley grass (Amaranthus spp.),	Southern WA	380mL -	Apply to actively growing weeds at least 6-8 cm
pasture, prior to	Brome grass (Bromus spp),	SA, VIC, NSW	770mL	high. Apply pre-tillering (low rate) and again post
disturbance by	Capeweed (Arctotheca calendula)	& ACT ONLY	+	tillering (high rate).
cultivation and/or	Doublegee (Emex australis),		760mL –	Use higher rates if heavily grazed or late in the
sowing with	Volunteer cereals, Wild oats (Avena		960mL	season or under cold/overcast conditions or when
tyned equipment.	spp)			Doublegee or Capeweed are more than 8 cm
	Annual phalaris (Phalaris spp),		760mL –	diameter.
	Annual ryegrass (Lolium rigidum),		960mL	If not cultivated or sown within 21 days, re-
	Dock (seeding) (Rumex spp),		+	treatment may be necessary, but do not sow until a
	Silver grass (Vulpia spp),		960mL -	satisfactory seedbed is established. (Refer to
	Winter grass (Poa annua)		1.15L	"Crop Establishment" under General Instructions).
	Amsinckia (Amsinckia spp),			Apply to actively growing weeds at least 6-8 cm
	Fumitory (Fumaria spp), Paterson's			high. Apply pre-tillering (low rate) and again post
	curse (Echium plantagineum),			tillering (high rate).
	Saffron thistle (Carthamus lanatus),			Use high rate if these weeds are more than 12-cm
	Scotch thistle (Onopordum	TAS ONLY	1.15 –	diameter.
	acanthium), Spear thistle (Cirsium	TAS UNLT	2.3L	If not cultivated or sown within 21 days, re-
	vulgare), Variegated Thistle (Silybum marianum), Volunteer		2.3L	treatment may be necessary, but do not sow until a satisfactory seedbed is established. (Refer to
	lupins, Wild turnip (<i>Brassica</i>			"Crop Establishment" under General Instructions).
	tournefortii)			Crop Establishment under General instructions).
	Seasonal suppression of Perennial	Southern WA	1.2L	
	Phalaris, Skeleton weed (Chondrilla	SA, VIC, NSW	1.26	
	juncea) -fully emerged rosettes	& ACT		
	(NSW only), Sorrel (Rumex	ONLY		
	acetosella), Soursob (Oxalis pes-	TAS ONLY	1.2 – 2.4L	In Tasmania use low rate on annual weeds and
	caprae), Sub-clover (Trifolium	.,,,,		high rate on perennials.
	subterraneum)			
Fallow or prior to	Barley grass (hordeum leporinum),	Southern WA	760mL –	Apply to actively growing weeds at least 6-8 cm
sowing as a	Volunteer cereals	SA, VIC, NSW	1.15L	high. Apply pre-tillering (low rate) and again post-
summer crop.	Wild oats (Avena spp)	& ACT ONLY		tillering (high rate)
Late	Soursob (Oxalis pes-caprae), 1		1.15L	Use higher rates if heavily grazed or late in the
winter/spring	Hoary cress (cardaria draba) 2			season or under cold/overcast conditions or when
treatment	Annual ryegrass (lolium rigidum),		1.15 –	capeweed is more than 8cm diameter.
	Broome grass (Bromus spp),		1.5L	If not cultivated or sown within 21 days, re-
	Capeweed (Arctotheca calendula),			treatment may be necessary, but do not sow until a
	Paterson's curse (rosette) (Echium			satisfactory seedbed is established. Refer to "Crop
	plantagineum), Saffron thistle			Establishment" under General Instructions).
	(Carthamus lanatus), Scotch thistle			Apply at tuber exhaustion. Add wetter.
	(Onopordum acanthium), Silver			² Apply late rosette to early flower.
	grass (Vulpia spp), Spear thistle			
	(Cirsium vulgare), Wild radish			
	(Raphanus raphanistrum), Wild			
	mustard (Sisymbrium officinale),			
	Wild turnip (Brassica tournefortii)			

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CROP/	WEEDS CONTROLLED	STATE (S)	RATE/ha	CRITICAL COMMENTS
SITUATION	WEEDO GONTROLLED	. ,		Citiro/iL Collinia_iti
Fallow or prior to sowing winter or summer crops	Annual Phalaris (<i>Phalaris spp</i>), Barley grass (<i>Hordeum leporinum</i>), Volunteer cereals, Wild oats (<i>Avena spp</i>) Amaranth (<i>Amaranthus spp</i>),	QLD Northern NSW ONLY	380 – 770mL	Apply to actively growing weeds at least 6-8 cm high. Note that barnyard and liverseed grasses are particularly prone to moisture stress. Use high rate on more advanced weeds, eg when grasses are fully tillered, and broad leaf weeds reach stem
	Australian bluebell (Wahlenbergia stricta)-(QLD only), Barnyard grass (Echinochloa spp), Cudweed (Gnaphalium spp), Fumitory (fumaria spp), Liverseed grass (Urochloa panicoides), Mexican poppy (Argemone mexicana), Mint weed (Salvia reflexa), New Zealand spinach (Tetragonia tetragonoides), Noogoora burr (Xanthium pungens), Saffron thistle (Carthamus lanatus), Spear thistle (Cirsium vulgare), Spurge (Euphorbia spp), Stinkgrass (Lovegrass) Eragrostis cilianensis), Stinking goosefoot (Chenopodium vulvaria), Sweet summer grass, Variegated thistle (Silybum marianum), Volunteer sorghum, Volunteer sunflower, Yellow vine (Caltrop) (Tribulus terrestris) Annual ground cherry (Gooseberry) (Physalis angulata) 3, Bladder		760mL - 1.15L	elongation or budding. At that stage the addition of 2,4-D Ester at recommended rates may be preferred.
	ketmia (Hibiscus trionum) ³ , Camel melon (Citrullus lanatus) ³ , Sowthistle (Milk thistle) (Sonchus oleraceus) ³ , Turnip weed (Rapistrum rugosum) ³ , Wild lettuce (lactuca saligna) ³ , Wild Turnip (Brassica tournefortii) ³			³ Apply prior to stem elongation or budding.
	Boggabri weed (Amaranthus macrocarpus, A.mitchellii), Indian hedge mustard (Sisymbrium orlentale), African turnip (Sisymbrium thellungii), Native millet (panicum decompositum)		380 - 770mL	Apply to actively growing weeds up to 5 true leaves or 3cm in diameter or height
	Suppression of; Black bindweed (Polygonum convolvulus), Wireweed (Polygonum aviculare)		760mL – 1.15L	Apply to weeds with more than 5 true leaves or larger than 3cm in diameter or height.
Pasture manipulation	Carpet grass (Axonopus spp), Kikuyu (Pennisetum clandestinum), Paspalum (Paspalum dilaatatum)	QLD, NSW & ACT, VIC, WA ONLY	1-4.6L	Use for suppression or control of these grasses to drilling forage species or soybeans. Higher rates give greater control.
Pasture Renovation Poa tussock	Most annual weeds and suppression of Poa (Poa labilladieri)	QLD, NSW & ACT, VIC, TAS ONLY	2.3 – 3.1L	Graze heavily then allow 14 days for strong regrowth. Apply after the autumn break, but before heavy frosts – March to May. Higher rates give greater control. Sowing may commence 14 days
infestations.				after treatment. Ensure proper follow up pasture establishment and management after treatment.
Pasture topping	Annual ryegrass (Lolium rigidum), Barley grass (Hordeum leporinum), Broome grass (Bromus spp), Capeweed (Arctotheca calendula), Silver grass (Vulpia spp)	NSW & ACT, VIC, SA, WA ONLY	230 – 350mL	Use higher rate for severe infestation and for annual ryegrass. Apply to capeweed and annual ryegrass at flowering. Apply to other grasses from head to milky dough stage, before signs of haying-off. Use 50L/ha water, or less. If using more water add a non-ionic surfactant at recommended rates.
Pasture – Bent grass infestations	Most annual weeds Bent grass (Agrostis capillaris)	VIC, TAS ONLY	1.9L	Remove stock to ensure strong leaf growth. Apply to actively growing weeds with some seed head development, in late spring. Disturb 10-21 days after treatment with tyned equipment. Follow with a summer crop, then re-seed pasture or crop next autumn.

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CROP/ SITUATION	WEEDS CONTROLLED	STATE (S)	RATE/ha	CRITICAL COMMENTS
Rice – direct drill	Annual phalaris (Canary grass), Annual ryegrass (Lolium rigidum), Barley grass (Hordeum leporinum), Burr media (Medicago spp), Sub- clover (Trifolium subterraneum), Winter grass (poa annua)	NSW ONLY	760mL – 2.3L	Apply to actively growing weeds and at least 6-8 cm high. Use high rate for severe infestations of ryegrass and add wetter. Direct drilling may commence 1-14 days after treatment. For residual weed control permanent water and selective herbicide treatments will be required.
Sorghum (NOT seed varieties or those sensitive to lodging)	Grain sorghum (Sorghum bicolor) – pre harvest	QLD, NSW & ACT ONLY	1.15 – 1.5L 760mL – 1.5L	Use high rate for ratoon regrowth. Use this rate for regrowth from slashed stubble and for fresh spring regrowth.
	Sorghum stubble – post harvest		1.15 – 1.5L	Use this rate for standing stubble if sufficiently green
Sugar Cane	Ratoon control	QLD, NSW ONLY	3 – 6.9L	Apply to actively growing ratoons 60-100 cm high. Use low rate for suppression or where cultivation will follow. Use higher rate for control. Apply with properly calibrated boom spray at correct height to allow overlap of spray pattern at top of crop canopy. DO NOT apply if plants are under stress.

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

WITHHOLDING PERIOD:

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

Genfarm Panzer Premier Herbicide is a non-volatile, non-selective water-soluble herbicide, which is absorbed by plant foliage and green stems and is translocated through the plant from point of contact and into the root system. The effects of the herbicide may not be visible for 3-7 days for annual weeds or 2-3 weeks for perennial weeds depending on water quality, weather conditions, weed species and rate used.

Genfarm Panzer Premier Herbicide will control emerged weeds only and does not provide residual weed control.

Ideally, weeds should be healthy and actively growing and, to obtain optimum results, should not have been recently sprayed with another herbicide.

Genfarm Panzer Premier Herbicide can be de-activated by soil particles and hard water containing calcium salts. Use only clean, fresh water for making up spray solutions, preferably rainwater or local authority water.

DO NOT apply Genfarm Panzer Premier Herbicide to wet plants or if heavy rainfall is expected within 6 hours. Avoid spraying at night if rain is expected the next morning.

Genfarm Panzer Premier Herbicide is recommended for control of emerged weeds prior to crop establishment as part of a conservation tillage operation.

With heavy weed growth, sowing should be delayed until weed decay and soil conditions allow formation of a satisfactory seedbed.

RESISTANT WEEDS WARNING

GROUP M HERBICIDE

Genfarm Panzer Premier Herbicide is a member of the glycines group of herbicides. Its mode of action is to inhibit the EPSP synthase. For weed resistance management Genfarm Panzer Premier Herbicide is a Group M Herbicide.

Some naturally-occurring weed biotypes resistant to Genfarm Panzer Premier Herbicide and other Group M herbicides may exist through normal genetic variability in any weed population. The resistant individuals may eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by this product or any other Group M herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use Genfarm Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

DO NOT however assume resistance without first reviewing the method of application, timing, water quality and weather conditions.

CROP ESTABLISHMENT

Genfarm Panzer Premier Herbicide is recommended for the control of emerged weeds prior to crop establishment. However, suitable cultivation and/or sowing procedures are required to provide seedbed conditions favourable for crop germination and development. Early spraying to control young weeds will favour preparation of suitable seedbeds. On friable soils, where there is only a light cover of young weeds, sowing may proceed 1 day after spraying. However, in situations of heavy weed growth, sowing should be delayed until weed decay and soil conditions allow formation of a suitable seedbed. Incorporation or trashing of green or decaying vegetation and roots into seedbeds by cultivation/sowing may cause retarded crop emergence especially in cold and/or wet conditions. Vegetation may be reduced by grazing and/or cultivation but leaving trash on the surface. Avoid use of pre-emergence herbicides where label directions advise a risk of retarded crop emergence and in marginal seedbed conditions pay particular attention to correct seeding depth.

MIXING

Genfarm Panzer Premier Herbicide readily mixes with clean water. Use only clean, fresh water free from soil particles or calcium/magnesium salts (hard water). If water is acidic use a recognised buffering agent. Spray solution should be used within a maximum of five days to avoid loss of activity. Ensure the spray tank is free of any residue from previous spray products. Fill spray tank with half required volume of clean, fresh water and then add measured amount of Genfarm Panzer Premier Herbicide as per Directions for Use (rate). Agitate well and fill with balance of water adding surfactant near end of filling with hose below surface to prevent excessive foaming. Remove hose when desired volume is reached to avoid siphoning. When adding compatible pesticides/additives add these first in a half full tank with agitation and then add Genfarm Panzer Premier Herbicide with the remaining water volume and, finally, surfactant as above, mixing thoroughly.

DO NOT use mechanical agitators as these may cause excessive foaming.

DO NOT mix with spraying oils, agricultural chemicals or any other material except as directed on the label.

TANK MIXTURES/COMPATIBILITY

Genfarm Panzer Premier Herbicide may be tank mixed with the following pesticides and additives with attention to their labels for specific restraints, withholding periods and directions for use requirements to be observed.

Herbicides:

Flowable Atrazine

For knockdown and residual weed control, addition of ammonium sulphate is required to overcome antagonism. (See note below)

DO NOT use this tank mix on BARNYARD GRASS.

DO NOT apply this mix by aerial application.

Flowable Simazine

For knockdown and residual control of annual weeds, addition of ammonium sulphate is required to overcome antagonism. (See note below)

2.4-D Ester

For improved control of certain broadleaf weeds, observe regional restrictions.

Dicamba (Banvel®)

For improved control of clover, medics and sorrel as per label directions.

Chlorsulfuron

For knockdown and residual weed control in fallow/crop. Observe plant back periods as per label.

Metsulfuron-methyl

For knockdown weed control in fallows and prior to planting certain winter cereals. Observe crop safety/crop rotation recommendations.

Oxyfluorfen (Goal CT®)

Mixture requires a specific compatibility agent, seek advice from labels.

Note: Addition of ammonium sulphate at the rate of 2kg/100L spray solution is required to overcome antagonism. This mixture is also useful for improving the performance of Genfarm Panzer Premier Herbicide under adverse environmental conditions such as cool cloudy weather. Ammonium sulphate may be corrosive to metal parts of the sprayer.

Insecticides:

Dimethoate, Omethoate, Fenitrothion, Azinphos-methyl (Gusathion A®), Phosmet (Imidan®), Chlorpyrifos, Demeton-S-methyl (Metasystox®). Other insecticides have not been compatibility tested

APPLICATION INFORMATION

Genfarm Panzer Premier Herbicide is a non-selective, translocated herbicide. Direct contact, or even drift, may cause severe injury or destruction to any growing crop or other desirable plants including trees.

Boom equipment:

Application of this product in low spray volumes (25-100L/ha) is recommended.

Fan nozzle equipment is recommended, using pressures in the range 240-280kPa.

Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy.

Aerial Equipment:

Aerial application should only be in pasture or fallow crop situations prior to establishment of field or fodder crops or new pasture and for pre harvest application for sorghum crops.

DO NOT use in intensive cropping situations.

Use registered rates up to a maximum of 3.2L/ha and for Micronair and boom equipment apply in a minimum spray volume of at least 15L/ha.

Average droplet size should be 250-350 micron diameter with a swath width of 15-17 metres.

DO NOT apply by aircraft in temperatures above 35°C.

Thoroughly wash aircraft, especially landing gear, after each day of spraying, to remove herbicide.

Application on hilly terrain:

Increase water volume to 30-80L/ha with droplet size to at least 300 micron VMD on hilly terrain.

Application under hot conditions:

When applying in temperatures above 25°C, increase water volume to at least 30L/ha and droplet size to at least 300 micron VMD.

Avoid conditions which may result in drift such as wind over 8km/h and inversion conditions or equipment producing droplets of 150 micron or less.

MAINTENANCE AND CLEANING

Thoroughly flush tanks, pumps and nozzles with clean fresh water after each day's spraying.

PRECAUTION

DO NOT mix, store or apply this product or spray solutions of this product in galvanised or unlined steel containers or spray tanks, since a highly flammable gas may be formed. Use stainless steel, aluminium, brass, copper, fibreglass, plastic or plastic-lined containers or spray tanks.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under meteorological conditions or from spraying equipment that could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

DO NOT apply prior to transplanting tomato seedlings.

PROTECTION OF WILDLIFE, FISH, CRUSTACEAN AND ENVIRONMENT

DO NOT contaminate dams, rivers or streams with the product or used container.

DO NOT apply to weeds growing in or over water. **DO NOT** spray across open bodies of water.

STORAGE AND DISPOSAL

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Do not store the product in galvanised steel or unlined steel containers, as the product may react to produce hydrogen gas, which can form a combustible gas mixture that can be flashed by ignition sources.

Triple or preferably, pressure 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, and or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia: 13 11 26).

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