

GINSTOP 540 SC

Document no: Effective date: Revision date (version): Product Code:

August 2017 August 2022 (5) PGRGINSTOP540SC/VM

432 VM

SAFETY DATA SHEET

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1. CHEMICAL IDENTIFICAT		ID COMPANY	(Acute Tox. 5) Causes skin irritation. (Skin Irrit. 2) Causes serious eye irritation. (Eye Irrit. 2)		
Product Name:	GINSTOP 540 S	С	May cause respiratory irritation. (STOT SE 3)		
Other identifier: Thidiazuron + Diuron 540 SC			Suspected of causing cancer. (Carc. 2)		
Recommended use: Plant growth regulator			May cause damage to organs through prolonged or		
Restrictions on use	0 0		repeated exposure. (STOT RE 2)		
	. Agriculture				
	Villa Crop Protectio Co. Reg. No.: 1992/0 PO Box 10413, Aston Manor, 1630, \$	002474/07	Label elements:		
	(011) 396 2233				
	011) 396 4666				
	www.villacrop.co.za				
	<u></u>				
Emergency telepho			Simple Woming		
24 Hr Transport / S		6 044 4411	Signal word: Warning Hazard statements:		
(Hazcall24)		0 044 44 1 1			
(Client: Villa Crop P		2 446 9046	H303: May be harmful if swallowed		
	nation Centre +278	2 440 8940	H313: May be harmful in contact with skin		
(Client: Villa Crop P		hara	H315: Causes skin irritation.		
	ncy telephone num		H319: Causes serious eye damage.		
	nation Centre +278		H335: May cause respiratory irritation.		
Poisons Information	Centre $+27$	361 555 777	H351: Suspected of causing cancer.		
			H373: May cause damage to organs through prolonged or		
2. HAZARDS IDEN	FIFICATION		repeated exposure.		
			H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effects.		
EU & SANS 10234	tion EC 1272/2008 :2008	[EU-GHS/CLP]	Precautionary statements:		
Hazard classes	Hazard	H-	P203: Obtain, read and follow all safety instructions before		
	categories	statements	use.		
Health			P260: Do not breathe dust, fume, gas, mist, vapours and		
Oral	Acute Tox. 5	H303	spray.		
Dermal	Acute Tox. 5	H313	P264+P265: Wash hands and face thoroughly after		
	Skin Irrit. 2	H315	handling. Do not touch eyes.		
Eye	Eye Irrit. 2	H319	P271: Use only outdoors in a well-ventilated area.		
Specific Target	STOT SE 3	H335	P273: Avoid release into the environment.		
Organ Toxicity -			P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.		
Single Exposure			P301+P317: IF SWALLOWED: Get medical help.		
Carcinogenicity	Carc. 2	H351	P302+P317+P352: IF ON SKIN: Wash with plenty of water		
Specific Target	STOT RE 2	H373	and non-abrasive soap. Get medical help.		
Organ Toxicity –					
Repeated			P304+P340: IF INHALED: Remove person to fresh air and		
Exposure			keep comfortable for breathing.		
Environment		·	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
Aquatic Acute 1	Aquatic Acute 1	H400			
Aquatic chronic	Aquatic Chronic 1	H410	present and easy to do. Continue rinsing.		
		1 -	P318: IF exposed or concerned, get medical advice.		
The most importan	t adverse effects [.]		P319: Get medical help if you feel unwell.		
Physiochemical eff			P332+P317: If skin irritation occurs: get medical help.		
None known			P337+P317: If eye irritation persists: Get medical help. P362+P364: Take off contaminated clothing and wash it		
			before reuse.		
Human health effect	ts.		P301: Collect spillage		

P391: Collect spillage.

Human health effects:

May be harmful if swallowed or in contact with skin.



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P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up.					rinsing. Seek medical attention. Ingestion: Do not induce vomiting. Seek medical		
P501: Dispose of content/container to suitable landfill in accordance with local regulations.				suitable landfill in	attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so		
	-				by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert,		
С	Special labelling of certain mixtures: None known. Other hazards: None known.				rinse mouth thoroughly with water.		
Toxicity: Classification according to GHS: Category 5			IS: Categor	v 5	Anticipated acute effects: May be harmful if swallowed or in contact with skin.		
3. COMPOSITION / INFORMATION ON INGREDIENTS				·	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation		
				INGREDIENTS			
Substance/Mixture: Mixture			Mixtu	ure	Anticipated delayed effects:		
Composition:				·	Suspected of causing cancer. May cause damage to organs through prolonged or		
	Chemical Name	CAS	Conc. (m/v %)	Classificatio n EC	repeated exposure.		
	Hame		(11/ 1/0)	1272/2008	Most important symptoms/effects: None known.		
				Acute tox. 4 (H312)	Advice to physician: Treat symptomatically.		
				Skin Irrit. 2 (H315)	5. FIRE-FIGHTING MEASURES		
	Thidiazuron	51707-55-2	30.51 %	Èye Irrit. 2	Suitable Extinguishing Media: Use water spray, alcohol-		
				(H319) Acute Tox. 4	resistant foam, dry chemical or carbon dioxide. Unsuitable Extinguishing Media: Do not use high-		
				(H332)	volume water jet, as this will spread the fire.		
				STOT SE 3 (H335)	Specific hazards: During fire, the following may be		
				Acute tox. 4 (H302)	released: hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), sulphur oxides, Nitrogen oxides (NOx). Special Fire Fighting Procedures: Remove spectators		
				Carc. 2 (H351)	from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from		
	Diuron	330-54-1	15.25 %	STOT RE 2 (H373)	maximum distance and use unmanned hose holder or		
			10.20 /0	Aquatic acute	monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove		
				1 (H400) Aquatic	container from fire area if possible and without risk. Do not		
				chronic 1	use high volume water jet, due to contamination risk. Do		
				(H410)	not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later		
4	. FIRST AID N	IEASURES			disposal. Contain fire control agents for later disposal.		
					Avoid pollution of waterways by run-off from the site. Personal protective equipment: Wear NIOSH/MSHA		
				bosure. Wash off the event of any	approved self-contained breathing apparatus and full		
remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure.					protective gear.		
Immediately consult a doctor.					6. ACCIDENTAL RELEASE MEASURES		
Inhalation: Remove person from contaminated area to fresh air and assist if breathing is needed. Seek medical							
attention if irritation occurs.				ad abaaa Canthy	Personal Precautions: Avoid contact with eyes and skin.		
Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and				•	Do not breathe in spray mist or fumes/vapours. Ventilate area of spill or leak, especially in contained areas.		
thoroughly with water and non-abrasive soap. Obtain				e soap. Obtain	Protective equipment: Refer to Section 8 for personal		
medical attention if irritation persists. Do not rub skin. Emergency personnel should wear gloves and avoid					protective equipment to be worn during containment and clean-up of a spill involving this product.		
contamination.					Emergency procedures: Alert firefighting personnel,		
	• •			at least 15 – 20	evacuate unprotected personnel and animals.		
n	minutes. Lift eyelids to facilitate irrigation. If present,				1		



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Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product	Components	Exposure limits	Type of exposure	Source
is classified to be very toxic to aquatic organisms and			limit	
may cause long-term adverse effects in the aquatic	Diuron	10 mg/cm ³	REL	NIOSH
environment. Any spillages or uncontrolled discharges		. eg, e		
into watercourses should be reported immediately to the		I		11
police and the Department of Water/Environmental	Engineering Co	ontrols:		
Affairs.)	It is essential		adequate ver	tilation. The
Methods and Materials for Containment: Contain spilled	measures appro	priate for a pa	articular works	site depend on
product by diking area with sand or earth.	how this materia	al is used and	d on the exter	nt of exposure.
Methods and Materials for Clean-up: Cover contained	Local Exhaust: F	•		
spill with an inert absorbent material such as sand,	systems to main			
vermiculite, earth or other appropriate material. Vacuum,	or other spec			ocal exhaust
scoop, or sweep up material and place the material into a	ventilation is pre-			-
clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do	properly design			Comply with
not place spilled material back in original container. Do not	occupational s		nmental, fire	e, and other
re-use spilled material. Collect washings and add to the	applicable regula Personal Prote		o.n.t	
drums already collected. Do not flush spilled material or	Respiratory			well-ventilated
washings into drains or waterways. To decontaminate the	conditions, no re			
spill area, tools and equipment, wash with water and	used in a poorly			
suitable detergent. See section 13 for disposal	exceed exposu			
considerations.	purifying respira			
	organic vapours		- -	
7. HANDLING AND STORAGE	Hand Protecti		e of chemic	ally protective
	(impervious) glo	ves is recom	mended to p	revent against
Handling:	skin contact.			
Precautions for safe handling: Avoid contact with skin	Eye Protection			
and eyes. Ensure adequate ventilation during handling	recommended t	•	•	itact. Contact
and use. Do not handle broken packages without protective equipment. Immediately clean up spills that	lenses are not p	•		
occur during handling. Keep containers closed when not	Skin and Bo			
in use. In the case of contact with the product, refer to	appropriate prot boots, hat an			
First Aid Measures – Section 4.	prolonged skin		•	•
General occupational hygiene: Practice good hygiene	leather clothing.		113 30D3tarice.	Do not wear
when using this material. Wash hands before eating,	Emergency eye	wash: Where	e there is any	possibility that
drinking, chewing gum, smoking, using the toilet or	an employee's			
applying cosmetics. Worker should shower at the end of	the employer s			
each workday. Launder all clothing before it is re-used.	appropriate alter			
Storage:	emergency use.			
Conditions for safe storage: Keep under lock and key				
and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly	9. PHYSICAL A	ND CHEMICA	AL PROPERT	IES
closed, in an isolated, dry, cool and well- ventilated area.				
Not to be stored next to foodstuffs, feed and water	Appearance: O		genous liquid	suspension.
supplies. Avoid cross contamination with other pesticides	Odour: Off aron			
and fertilisers.	pH (1% aqueou	•	.5 @ 24 °C.	
Incompatible substances and mixtures: Refer to	Melting point:			
product label.	Freezing Point: Not available.			
Packaging material: Plastic containers.	Boiling Point: Not available. Flash Point: Not available.			
	Flammability: N			
8. EXPOSURE CONTROLS AND PERSONAL	Upper/lower ex		Not available	e
PROTECTION	Vapour Pressu			0.
Permissible concentration	Relative Vapou			
Permissible concentration	Density/Relative density: 1.18 mg/l @ 24 °C.			

Density/Relative density: 1.18 mg/l @ 24 °C.

Solubility: Not available.



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n-octanol/water partition coefficient: Not available.	12. ECOLOGICAL	INFORMATION		
Auto-ignition temperature: Not available.				
Decomposition temperature: Not available.	This product is very toxic to aquatic organisms with long			
Viscosity: Not available.	lasting effects.			
		TA: Based on the a	active ingredient.	
10. STABILITY AND REACTIVITY	Thidiazuron + Diu	ron		
	Fish:			
Chemical Stability: The product is stable for 2 years at		Rainbow trout	> 10 mg//	
ambient temperature and pressure, under normal storage	LC ₅₀ (96 h)	Bluegill sunfish	>19 mg/ℓ.	
and handling conditions. Avoid storage under extreme	Diuron	Dideyili surilisi	>32 mg/ℓ.	
temperatures and conditions. Store below 50°C, preferably below 30°C, and not for prolonged periods in	LC ₅₀ (96 h)	Rainbow trout	14.7 m m/4	
direct sunlight.	2050 (00 11)	Sheepshead	14.7 mg/ℓ.	
Reactivity: None known.		minnows	6.7 mg/ℓ.	
Possibility of Hazardous Reactions: No hazardous		Fathead minnows	14 mg/ <i>l</i> .	
reactions will occur when stored and handled according to	Daphnia:			
prescribed instructions.	Thidiazuron			
Conditions to Avoid: Flames, fire, extreme temperatures	LC ₅₀ (48 h)		>10 mg/ℓ.	
and direct sunlight.	Diuron			
Incompatible Materials: None known. Store only in the	EC ₅₀ (48 h)		1.4 mg/ℓ.	
original container.	Algae:			
Hazardous Decomposition Products: In the event of fire	Thidiazuron	No data		
this product may produce by products such as Hydrogen		0 / · · ·	0.000	
chloride (HCL), Hydrogen cyanide (hydrocyanic acid),	Diuron	Selenastrum	0.022 mg/ℓ.	
Carbon monoxide (CO), Sulphur oxides & Nitrogen oxides (NOx).	EC ₅₀ (120 h)	capricornutum		
(NOX):	<u>Birds:</u> Thidiazuron			
11. TOXICOLOGICAL INFORMATION	Acute oral LD ₅₀	Japanese quail	>3160 mg/kg.	
	Dietary LC ₅₀ (8 d)	Bobwhite quail &	>5000 mg/kg diet	
ACUTE TOXICITY:	,,	mallard ducks	0.0	
Calculated according to GHS.	Diuron			
Oral LD 50 (24 h) 2351.07 mg/kg.	Oral LD ₅₀ (14 d)	Bobwhite quail	1104 mg/kg.	
Dermal LD ₅₀ (24 h) 2622.22 mg/kg.	Dietary LC ₅₀ (8 d)	Bobwhite quail	1730 ppm	
Inhalation LC ₅₀ (4 h) rat 7.54 mg/ℓ.		Japanese quail	>5000 ppm	
Skin Irritation/Corrosion: Causes skin irritation.		Mallard ducks	5000 ppm	
Eye Damage/Irritation: Causes serious eye irritation.	Bassi	Pheasants	>5000 ppm.	
Skin Sensitization: Not classified.	<u>Bees:</u> Thidiazuron	Non-toxic to		
Respiratory Sensitization: Not classified.	Thuazuron	Honeybees.		
Reproductive cell mutagenicity: Not classified. Carcinogenicity: Suspected of causing cancer.	Diuron	Practically non		
Reproductive toxicity: Not classified.	LD ₅₀ (contact)	toxic to bees.	145 mg/kg.	
Specific target organ toxicity – single exposure: May	00 (11 111)		- 3- 5	
cause respiratory irritation.	Worms:			
Specific target organ toxicity - repeated exposure:	Thidiazuron	earthworms	>1400 mg/kg.	
May cause damage to organs through prolonged or	LC ₅₀ (14 d)			
repeated exposure.	Diuron			
Aspiration hazard: Not available.	LC ₅₀ (14 d)		>400 mg/kg.	
Chronic Effects: Not available.	Dianta			
POTENTIAL ADVERSE EFFECTS:	Plants:	ly amall amayinta a	f racidua (narmally	
Inhalation: May be harmful if inhaled.		nly small amounts o ikely in cottonseed.	TESIQUE (NOTTIAlly	
Skin contact: Causes skin irritation.		, diuron undergoes c	lemethylation of the	
Eye contact: Causes serious eye irritation. Ingestion: May be harmful if swallowed.				
mycouon. May be nanniu ii Swalloweu.	nitrogen atom and hydroxylation at position of the benzene ring.			
	ENVIRONMENTAL EFFECTS:			
	Animal:			
	I			



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SAFETY DATA SHEET Thidiazuron: In rats and goats, metabolism involves Class: 9 Packaging group: hydroxylation of the phenyl group, followed by formation UN Proper Shipping Name: **ENVIRONMENTALLY** of water-soluble conjugates. Following oral administration, the compound is excreted in the urine HAZARDOUS and faeces within 96 hours. SUBSTANCE, LIQUID, Diuron: In mammals, metabolism is principally by N.O.S hydroxylation and dealkylation (C. Boehme & W. Ernst, (Thidiazuron + Diuron Food Cosmet. Toxicol., 1965, 3, 797-802). 540 g/l) Persistence and degradability: Maritime Transport IMDG/IMO: Thidiazuron: Strongly adsorbed by soil. DT₅₀ in soil c. Class: 9 26-144 d (aerobic), 28 d (anaerobic). Essential soil Packaging group: Ш microbial processes are only temporary influenced. UN Proper Shipping Name: **ENVIRONMENTALLY** Diuron: In soil, enzymic and microbial demethylation of HAZARDOUS the nitrogen atom and hydroxylation at position 2 of the SUBSTANCE. LIQUID, benzene ring occur. Duration of activity in soil is c. 4-8 N.O.S months, depending on soil type and humidity; DT₅₀ 90-(Thidiazuron + Diuron 180 d (G. D. Hill et al., Agron. J., 1955, 47, 93; T.J. 540 q/l) Sheets, J. Agric. Food Chem., 1964, 12,30). Koc 400. Marine Pollutant (Y/N): Yes Bio-accumulative Potential: Not determined. Air Transport IATA/ICAO: Mobility in soil: Not determined. 9 Class: Other adverse effects: Not determined. Packaging group: Ш UN Proper Shipping Name: ENVIRONMENTALLY 13. DISPOSAL CONSIDERATIONS HAZARDOUS SUBSTANCE, LIQUID, Waste: Open dumping or burning of this pesticide is N.O.S prohibited. Waste resulting from the use of this product (Thidiazuron + Diuron cannot be reused or re-processed. Never pour untreated 540 g/l) waste or surplus product into public sewers or where Special/Environmental Precautions: None known. there is any danger of run-off or seepage into water Transport in bulk (according to MARPOL 73/78, Annex II systems. Do not contaminate rivers, dams or any other and the IBC code): Not available. water sources with the product or used containers. Comply with local legislation applying to waste disposal. **15. REGULATORY INFORMATION** The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is Safety, health and environmental preferred to disposal or incineration. If recycling is not regulations/legislation for the mixture: practicable, dispose of in compliance with local OHSA 1993 Regulations for Hazardous Chemical regulations. Substances. Container: : Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Relevant information regarding restrictions: None. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has EU regulation: Regulation EC1272/2008 (EU-GHS/CLP) slowed down to dripping. Thereafter rinse the empty container three times in succession with one guarter of Other national regulations: None. the container volume fresh water and decant the rinsate into the spray or mixing tank. Chemical Safety Assessment carried out? No Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do **16. OTHER INFORMATION** not bury, burn or donate the container to any other parties that may use it as a container for food or Packaging: Packed in 100, 200, 250, 500 ml, 1, 5, 10, 15, beverages. Observe all labelled safeguards until 20 and 25 litres plastic containers, labelled according to container is destroyed. South African regulations and guidelines. **14. TRANSPORT INFORMATION** Other hazard statements. abbreviations and explanations: **UN Number:** 3082 H302: Harmful if swallowed. Road Transport ADR/IRD: H312: Harmful in contact with skin.



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H332: Harmful if inhaled.
IBC: International Bulk Chemical.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization.
LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit. **TWA:** Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.