

STINGER 510

Section 1: Identification

Product name:	STINGER 510
Other names:	Stinger 510 G; Soluble concentrate containing glyphosate acid 510 g/L as the IPA salt
Recommended use:	Herbicide
Manufacturer/Importer details:	PGG Wrightson Limited 1 Robin Mann Place Christchurch Airport, 8053 PO Box 292, Christchurch 8140 Phone: 03 372 0890
24 hour emergency contact: National Poisons Centre:	0800 CHEMCALL (0800 243 622) 0800 POISON (0800 764 766)

Section 2: Hazard identification

HSNO Approval: Hazardous classification:	Product is classified as hazardous according to the Hazardous Substances (Classification) Notice 2020 of the HSNO Act, 1996. HSR101051 Serious eye damage Category 1 Hazardous to aquatic environment chronic Category 2
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Signal word:	DANGER
Hazard statements:	H318 Causes serious eye damage. H411 Toxic to aquatic life with long-lasting effects.

Prevention statements:	P102 Keep out of reach of children. P103 Read label before use. P273 Avoid release to the environment. P280 Wear eye/face protection.
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Response statements:	P101 If medical advice is needed, have product container or label at hand, P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTRE or doctor. P391 Collect spillage.
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Storage statement/s:	-
Disposal statement/s:	P501 Dispose of product and containers in accordance with local Regulations. See section 13 for more details.
Additional label requirements:	Do not apply directly into or onto water (except as allowed for on product label). Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Section 3: Composition/information on ingredients

Chemical identity of ingredients with health or environmental hazards:

<i>Ingredient</i>	<i>CAS No.</i>	<i>Proportion w/w</i>
Glyphosate acid	1071-83-6	40 – 43*
Isopropylamine	75-31-0	16 - 19
Ammonium quaternary compound	Proprietary	1 - 5
Other ingredients	Proprietary	Balance
*present as the IPA salt		

Section 4: First-aid measures

First aid measures:	For advice contact National Poisons Centre (phone New Zealand 0800 764 766) or a doctor. Have product label or Safety Data Sheet at hand.
Inhalation:	Remove patient to fresh air and keep at rest in a position comfortable for breathing.
Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Get advice if person feels unwell.
Skin contact:	Immediately take off contaminated clothing and wash skin with soap and water. Get medical attention if irritation occurs.
Eye contact:	Hold eyelids apart and rinse the eye cautiously for at least 15 minutes. Remove contact lenses, if present and easy to do, continue rinsing. Immediately call a POISON CENTRE or doctor for advice.
First aid facilities:	Provide eye baths and safety showers close to areas where product contact or splashing may occur.
Advice to doctor:	Treat symptomatically.

Section 5: Fire-fighting measures

Flammability:	Not flammable.
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Appropriate extinguishing media:	Dry chemical, water spray (fog), foam or carbon dioxide
Combustion products:	Smoke, oxides of carbon, oxides of nitrogen and other unidentified compounds.
Special protective equipment and precautions for fire-fighters:	Self-contained breathing apparatus required. Do not allow contaminated runoff to enter drains or waterways.
HAZCHEM code:	3Z
Section 6: Accidental release measures	
Personal precautions:	Use appropriate protective equipment as listed in section 8.
Environmental precautions:	This substance is toxic to aquatic life with long-lasting effects. Use according to label. Avoid contamination of any waterway, drain or water supply with the substance or empty container. Notify local authority if contamination of any waterway.
Procedure for clean up:	Contain and then absorb with inert material such as sand, soil, cat litter. Collect into an appropriate, labelled salvage container that can be sealed. Wash down area with water and detergent. Absorb and collect washings for disposal. Dispose of to an approved hazardous landfill or waste collection facility.
Section 7: Handling and storage	
Safe handling:	Read label before use. When mixing or applying wear protective clothing, waterproof gloves, rubber boots, and eye protection. Wash splashes off exposed skin or out of eyes immediately. Wash hands and face thoroughly after handling and before rest or meal breaks. This substance must not be applied at rates exceeding 14 L/ha (equivalent to 7.14 kg glyphosate/ha). Prevent spray drift as it may cause severe damage to non-target plants. This product must be under the control of an approved handler when applied into or onto water, and the water has the potential to leave the application area.
Safe storage:	Keep out of reach of children. Store in original container, tightly closed and in a dry, cool, well-ventilated area away from foodstuffs, feeds, seeds, fertilisers, insecticides, or fungicides.
Section 8: Exposure controls/personal protection	
Occupational exposure limits:	WES values are not set for components as of 11 th edition of WES values published by WorkSafe November 2019, November 2019 WES and BEI values.

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		<i>Ingredient</i>	<i>Exposure route</i>	<i>WES-TWA</i>	<i>WES-STEL</i>
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Biological limit value:		No Biological Index values have been set as of the 14 th edition of WES and BEI values published by WorkSafe in November 2023			
Engineering controls:		No specific requirements.			
Respiratory protection:		No specific requirements although product should be used in well-ventilated area or outdoors.			
Hand protection:		Chemical resistant gloves, e.g. nitrile, neoprene.			
Eye protection:		Safety glasses or chemical goggles or face visor.			
Skin protection:		Overalls/boots.			
General hygiene:		Do not eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.			
Personal Protection:		Further information on specific types of personal protective gear and related standards is available in Section 16.			
Section 9: Physical and chemical properties					
(a)	Appearance:	Clear yellow liquid.			
(b)	Odour:	Slight			
(c)	Odour threshold:	No data available.			
(d)	pH:	4.5– 6.5 (neat)			
(e)	Melting point/freezing point:	No data available.			
(f)	Initial boiling point and boiling range:	>100°C			
(g)	Flash point:	Non flammable			
(h)	Flammability (solid, gas):	Not applicable.			
(i)	Upper/lower flammability or explosive limits:	Not applicable			
(j)	Vapour pressure:	Not determined			
(k)	Vapour density:	Not determined			
(l)	Relative density:	ca 1.22g/ml			
(m)	Solubility (ies):	Soluble in water			
(n)	Partition coefficient n-octanol/water:	K _{ow} log P -3.2 @ 25°C (for glyphosate)			
(o)	Auto-ignition temperature:	Not determined			
(p)	Decomposition temperature:	No data available.			
(q)	Kinematic viscosity:	No data available.			
Section 10: Stability and reactivity					

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Stability of the substance:	Stable under normal conditions of storage and use.
Conditions to avoid:	No information available.
Incompatible materials:	Galvanised steel, or unlined mild steel. May produce hydrogen a highly flammable gas.
Hazardous decomposition products:	Not known to occur.

Section 11: Toxicological information

	Toxicity classifications determined by assessment of the components in the formulated mixture.		
(i)	Acute toxicity:	Not classified as harmful if ingested, by dermal absorption or by inhalation.	
(ii)	Aspiration hazard:	Not classified as aspirant hazard.	
(iii)	Respiratory irritation:	Not classified.	
(iv)	Skin corrosion / irritation:	Mildly irritating to skin.	
(v)	Serious eye damage / irritation:	Classified as may cause serious damage to eyes.	
(vi)	Respiratory or skin sensitisation:	Not classified as respiratory or contact sensitizer.	
(vii)	Germ cell mutagenicity:	Not classified for mutagenic effects.	
(viii)	Carcinogenicity:	Not classified for carcinogenic effects.	
(ix)	Reproductive toxicity:	Not classified for adverse fertility or developmental effects.	
(x)	Specific organ toxicity:	Not classified for adverse effects to organs/systems.	
(xi)	Narcotic effects:	Not classified for narcotic effects.	
Toxicological information for active ingredient:		For glyphosate acid:	Oral LD ₅₀ (rat) > 5000 mg/kg b.w. Dermal LD ₅₀ (rabbit) > 5000 mg/kg b.w.

Section 12: Ecological information

	Ecotoxicological classifications determined by assessment of the components in the formulated mixture.		
(a)	Aquatic toxicity:	Toxic to aquatic life with long lasting effects.	
(b)	Soil environment:	Not classified.	
(c)	Terrestrial vertebrate toxicity:	Not classified.	
(d)	Terrestrial invertebrate toxicity:	Not classified.	
(e)	Persistence and degradability:	Expected to be rapidly degradable. Absorption studies indicate glyphosate has very low mobility. Average field half-life of glyphosate is 47 days.	
(f)	Potential to be bioaccumulative:	Not identified as being bioaccumulative. Glyphosate is not bio-accumulative; BCF = <1 for bluegill sunfish. Log Pow -3.2 @ 25 °C (for glyphosate)	

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(g) Mobility in soil:	Product is soluble in water. May contaminate groundwater. Glyphosate is however strongly absorbed by soil and therefore becomes practically immobile. Microbial degradation is the major cause of loss from soil with liberation of carbon dioxide.
Ecotoxicological information for active:	For glyphosate: Rainbow trout (<i>Oncorhynchus mykiss</i>) LC ₅₀ (96 hr) 86 mg/L Bluegill sunfish (<i>Lepomis macrochirus</i>) LC ₅₀ (96 h) 120 mg/L <i>Daphnia magna</i> EC ₅₀ (48 h) 780 mg/L Bobwhite quail (<i>Colinus virginianus</i>) LD ₅₀ > 3850 mg/kg Honey bee (<i>Apis mellifera</i>) oral, LD ₅₀ 100 µg/bee
Section 13: Disposal considerations	
Product disposal:	Dispose of this product only by using according to the label or through Agrecovery chemical disposal or similar approved service or to an approved landfill.
Container disposal:	Triple rinse empty container adding rinsate to the spray tank. Recycle through Agrecovery if possible or appropriate recycling facility. Alternatively, crush and bury in an approved landfill. Do not use container for any other purpose. Avoid contamination of any water supply or stream with product or empty container.
Section 14: Transport information	
UN number:	3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLYPHOSATE ACID 51%)
UN class:	9
Sub-class:	III
Packing group:	-
HAZCHEM:	3Z
Marine Pollutant:	Yes
Special precautions:	-
This product is classified as a Dangerous Good. Consult the Land Transport Rule: Dangerous Goods 2005 and NZS 5433:2020 Transport of Dangerous Goods on Land for more information	
Section 15: Regulatory information	
HSNO Act 1996:	Approved substance under the HSNO Act 1996.
HSNO approval number:	HSR101051
Tolerable exposure limit / environmental exposure limit:	None set at time of SDS preparation.
HSNO controls:	Refer to www.epa.govt.nz .

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	<p>Qualifications</p> <p>Tracking: Safety Data Sheet: Restricted to workplace only: Quantity that must be secured when unattended: Fire extinguishers Quantity for secondary containment and emergency response plan: Quantity for signage: Quantity for Location certificate Records of use (3 kg or more applied to area within 24 hours) Quantity that requires management in accordance with HSW HS Regulations Hazardous Substances (Packaging) Notice 2017; Clause 9</p>	<p>Refer to Additional Controls No Any quantity No - - >1000 L >1000 L - - - UN Pack Group III</p>
<p>Additional controls:</p>	<p>Application rate The person in charge of the application of this substance, and any person applying the substance, must ensure that the application is carried out in accordance with the following restriction: the substance must not be applied at rates exceeding 14 L of formulated product/ha per application (equivalent to 7.14 kg glyphosate acid/ha)</p> <p>The following statements, or words to the same effect, must appear on the product label and safety data sheet:</p> <ul style="list-style-type: none"> · <i>This substance must not be applied at rates exceeding 14 L/ha (equivalent to 7.14 kg glyphosate/ha).</i> · <i>Prevent spray drift as it may cause severe damage to non-target plants.</i> <p><i>This product must be under the control of an approved handler when applied into or onto water, and the water has the potential to leave the application area.</i></p>	
<p>ACVM Act 1997:</p>	<p>Registered under the Agricultural Compounds Veterinary Medicines Act 1997.</p>	
<p>ACVM registration number:</p>	<p>P009380</p>	
<p>Conditions of registration:</p>	<p>See www.foodsafety.govt.nz</p>	
<p>Section 16: Other information</p>		
<p>Date of issue: Reason for reissue: Replaces:</p>	<p>16/01/2025 Update to GHS hazardous categories. SDS dated 24/08/2020</p>	

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Information references:	Supplier Safety Data Sheet NZ EPA Approved hazardous substances with controls Workplace Exposure Standards and Biological Exposure Indices
Abbreviations:	ACVM: Agricultural Chemicals and Veterinary Medicines Group HSNO: Hazardous substances and New Organisms Act 1996 (HSNO Act) EPA: Environmental Protection Authority of New Zealand CAS Number: Chemical Abstracts Service Number LD50: Lethal Dose 50% (Population) LC50: Lethal Concentration 50% (Population) REI: Restricted Entry Interval WES-TWA: Workplace exposure standards – Time-weighted average WES-STEL: Workplace exposure standards – Short-term exposure limit
Personal Protection Standards:	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715 , Protective Gloves: AS 2161 , Occupational Protective Clothing: AS/NZS 4501 , Industrial Eye Protection: AS1336 and AS/NZS 1337 , Occupational Protective Footwear: AS/NZS2210

The data provided in this safety data sheet is based on current knowledge and experience. The purpose of this document is to describe the product in terms of its safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.