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SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifiers

Product name : Sanonda Herbicide Glyphosate 510SL
Active ingredient : Glyphosate IPA salt
Product code : 7205

1.2. Other means of identification

IUPAC name:

Paraquat: *N*-(phosphonomethyl)glycine potassium salt.

1.3. Recommended use of the chemical and restrictions on use

A non-selective water-soluble herbicide for the control of a wide range of annual and perennial weeds in a wide variety of situations as indicated in the directions for use.

1.4. Details of the supplier of the safety data sheet

Sanonda (Australia) Pty Ltd (ABN 23 059 813 973)

Address: Suite 822, St Kilda Road Towers, No. 1 Queens Road, Melbourne,
Victoria 3004 Australia.

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1.4. Emergency telephone number

Emergency number : +61 3 9863 8081

SECTION 2: Hazards identification

GHS CLASSIFICATIONS Eye irritation Category 2
Hazardous to the aquatic environment chronic Category 2

HSNO CLASSIFICATIONS 6.4A, 9.1B

SIGNAL WORD WARNING

PICTOGRAMS





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HAZARD STATEMENTS	H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
PREVENTION STATEMENTS	P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P270 Do not eat, drink or smoke when using this product. P273 Avoid unintended release to the environment. P280 Wear protective gloves/ protective clothing / eye protection / face protection.
RESPONSE STATEMENTS	P101 If medical advice is needed, have product container or label on hand. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/ attention. P337 + P313 + P363 Wash contaminated clothing before reuse. P391 Collect Spillage.
STORAGE STATEMENTS	See Section 7.
DISPOSAL STATEMENTS	P501 Dispose of contents/ containers in accordance with relevant regulations.
	See Section 13.

SECTION 3: Composition/information on ingredients

Ingredients	CAS No	Concentration, g/L	TWA (mg/m ³)	STEL (mg/m ³)
Glyphosate isopropylamine salt	38641-94-0	51% (510 g/L)	not set	not set
Alkyl dimethyl betaine	66455-29-6	<10%	not set	not set
Non-hazardous ingredients	Proprietary	Balance to volume		

SECTION 4: First aid measures

EYE CONTACT	Rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If irritation persists, call the POISON CENTRE or a doctor.
SKIN (or hair) CONTACT	Remove contaminated clothing and flush skin and hair with running water. If skin irritation occurs, get medical advice/ attention.
INHALATION	Remove to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration if not breathing. Call doctor if you feel unwell.
INGESTION	Do NOT induce vomiting. Rinse mouth. Call the POISON CENTRE or a doctor if you feel unwell.
NOTES TO DOCTOR	Treat symptomatically.



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FIRST AID FACILITIES Eye wash facilities and safety shower should be available.

SECTION 5: Firefighting measures

EXTINGUISHING MEDIA Alcohol resistant foam is preferred firefighting medium but if it is not available, standard foam can be used. Prevent extinguishing media from entering drains.

THERMAL DECOMPOSITION PRODUCTS
Non-flammable. Thermal decomposition may produce toxic fumes and compounds. This product reacts with galvanized steel or unlined steel to produce potentially explosive hydrogen gas.

SPECIAL FIRE FIGHTING METHODS
Self-contained breathing apparatus with full face-piece and protective clothing.
Cool fire exposed containers with water spray.

SECTION 6: Accidental release measures

PERSONAL PRECAUTIONS:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

ENVIRONMENTAL PRECAUTIONS:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

OCCUPATIONAL SPILL:

Remove all sources of flames and sparks. For small liquid spills, soak up with lime, damp earth or sand, or other noncombustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

SECTION 7: Handling and storage

HANDLING:

Avoid contact with eyes, prolonged contact with skin, and inhalation of spray and fumes. Handle product with caution. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the herbicide gets inside. Then wash skin thoroughly using a nonabrasive soap and put on clean clothing. Operators should change and wash clothing after use. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

STORAGE:

Store in its original, labelled and closed container in dry, cool, shaded, well-ventilated area, away from heat,



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sparks and other sources of ignition. Do not store with other pesticides, fertilizer, seeds, foodstuffs and water supplies. Store away from incompatible substances. Product is incompatible with galvanized steel or unlined mild steel. Keep out of reach of unauthorized persons, children and animals. Local regulations should be complied with.

SECTION 8: Exposure controls/personal protection

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

RESPIRATOR:

It is usually safe to use the product without a mask or respirator. If the product is used in dusty or confined conditions, a mask or respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

CLOTHING:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

GLOVES:

Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

EYE PROTECTION:

Wear safety goggles or face shield.

EMERGENCY EYEWASH:

Where there is any possibility that an employee's eyes may be exposed to this substance the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9: Physical and chemical properties

- a) Appearance : Clear, semi-viscous liquid
- b) Odour : Odourless to slight amine odour
- c) pH : 4.5 - 5.5
- d) Melting point/freezing point : Approximately 0 o C
- e) Initial boiling point and boiling range : Approximately 100 o C at 100kPa
- f) Flash point : None
- g) Flammability (solid, gas) : None combustible material
- h) Vapour pressure : 2.37kPa at 20 o C (water vapour pressure)
- i) Specific gravity : 1.212 - 1.222
- j) Solubility in water : Completely soluble
- k) Auto-ignition temperature : Not applicable - does not burn
- l) Viscosity : 266 - 294cps (RVT 2 at 20rpm)



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SECTION 10: Stability and reactivity

STABILITY:

Stable under normal temperatures and pressures. Glyphosate reacts strongly (possibly violent exothermic reaction) with strong alkalis. Photodecomposition is negligible. Is stable to light and also stable up to 60°C. Product is unlikely to spontaneously polymerise or decompose. Decompose only after heating to dryness followed by further heating. Glyphosate may be photolabile in natural waters, with calcium or other metal ions acting as catalysts for the process.

DILUTION STABILITY:

Stable in aqueous solutions at 20°C.

STORAGE STABILITY:

Stable for 2 years under normal warehouse conditions. Store at temperatures below 50°C and above -15°C. Stable to light. Partial crystallization may occur on prolonged storage below -15°C.

INCOMPATIBILITY:

Product is relatively stable in neutral, weakly acidic and weakly alkaline media, but reacts strongly (and possibly violently) with strong alkalis. Mixing with other products may reduce the activity of glyphosate. Incompatible with galvanized steel and unlined mild steel materials for storage.

THERMAL DECOMPOSITION:

Toxic oxides of carbon, nitrogen and phosphorus are released when the product decomposes on heating.

SECTION 11: Toxicological information

LD ₅₀ oral rats	> 5000 mg/kg for a similar product
LD ₅₀ dermal rats	> 5000 mg/kg for a similar product
LC ₅₀ inhalation rats, rabbits, guinea pigs or cats Rat (4hr)	>1.3 mg/L
Eye irritation	The concentrate may cause irritation of the eyes. Prolonged contact with the concentrate may cause damage to the eye.
Skin irritation likely to	The concentrated product may cause irritation on contact. Prolonged contact is likely to result in irritation.
Skin sensitization	Do not cause sensitisation

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

LC ₅₀ fish 895	Not toxic to fish. LC ₅₀ (96 hr) for rainbow trout is > 989mg/L; LC ₅₀ (96 hr) for carp is > 895 mg/L. The above data is for the formulated product.
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- LC₅₀ daphnia The 48-hour LC₅₀ for glyphosate in Daphnia (water flea), an important food source for freshwater fish, is 780 mg/L.
- EC₅₀ algae EbC₅₀ (72 h) for glyphosate in green algae (*Selenastrum capricornutum*) 485 mg/l, (7 d) 13.8 mg/l, ErC₅₀ (72 h) 460 mg/l; EC₅₀ (96 h) for marine algae (*Skeletonema costatum*) 1.3 mg/l, (7 d) 0.64 mg/l; EC₅₀ (7 d) for diatom (*Navicula pelliculosa*) 42, blue-green algae (*Anabaena flos-aquae*) 15 mg/l.
- Other Organisms Glyphosate is nontoxic to honeybees. It's oral and dermal LD₅₀ is greater than 0.1 mg/bee.

12.2. Persistence and degradability

Breakdown in soil and groundwater:

Glyphosate is moderately persistent in soil, with an estimated average half-life of 47 days. Reported field half-lives range from 1 to 174 days. It is strongly adsorbed to most soils, even those with lower organic and clay content.

Breakdown in water:

In water, glyphosate is strongly adsorbed to suspended organic and mineral matter and is broken down primarily by microorganisms. Its half-life in pond water ranges from 12 days to 10 weeks.

Breakdown in vegetation:

Glyphosate may be translocated throughout the plant, including to the roots. It is extensively metabolized by some plants, while remaining intact in others.

12.3. Bioaccumulative potential

Glyphosate's low octanol/water coefficient and low fat (lipids) solubility indicate that it has a low tendency to bioaccumulate.

12.4. Mobility in soil

Glyphosate has low mobility and only a slight tendency to leach in soil. According to Linders et al. (1994), glyphosate is classified as very slightly mobile in soil. Glyphosate is inactivated through soil adsorption; it has low leaching potential and very low volatility (Franz et al. 1997).

SECTION 13: Disposal considerations

PESTICIDE DISPOSAL:

Open dumping or burning of this pesticide is prohibited waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

CONTAINER DISPOSAL:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

SECTION 14: Transport information



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UN NUMBER: 3082
CLASS: 9
PACKING GROUP: III
SHIPPING NAME: Environmentally hazardous substance, liquid, N.O.S.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 5 poison. This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. APVMA Approval No.: 65539/51153

Product is not classified as a Dangerous Good according to the ADG Code (7th Ed), the International Maritime Dangerous Goods (IMDG) Code or the International Air Transport Association (IATA).

Classified as a hazardous substance according to criteria of Safe Work Australia.

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

15.2. Poisons Schedule number

This product is a Schedule 5 Poison and must be stored, transported and sold in accordance with the relevant Health Department regulations.

SECTION 16. OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

All due care and skill, so far as practicable, has been applied in the preparation and collation of the information in this SDS. Each user of the Product named in this SDS should read and consider the information contained in this SDS in the context of how the Product will be stored, handled, used or applied in the workplace. In all circumstances, it is the responsibility of the user of the Product to ensure that they have sought out the relevant safety data appropriate to their particular situation. Nothing contained in this SDS shall be construed as a representation or recommendation to the user about the suitability or otherwise of the Product named in this SDS for the user's particular situation. If the user requires any clarification or further information, the user should contact Sanonda (Australia) Pty Ltd.

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Please read all labels carefully before using product.

Date of Issue: May 12, 2023.