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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 acid
Product code : Not allocated.

1.2. Other means of identification

IUPAC name: N-(phosphonomethyl)glycine

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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email@sanonda.com

1.4. Emergency telephone number

Emergency number : +61 3 9863 8081

SECTION 2: Hazards identification

2.1. GHS classification of the substance or mixture

Eye damage/irritation : Category 2A

Skin corrosion/irritation : Category 2

2.2. Label elements

Signal word : Warning

Hazard statements (CLP) : H315 - Cause skin irritation.

H319 - Cause serious eye irritation.

Precautionary statements : P264 - Wash hands and exposed skin thoroughly after



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handling.

P280 - Wear protective gloves, clothing, eye and face protection.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 - If eye irritation persists: Get medical advice/attention.

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

Hazard pictogram

: Exclamation Mark



SECTION 3: Composition/information on ingredients

Identity of chemical ingredients	CAS	Concentration
Glyphosate acid	1071-83-6	510 g/L
IPA (isopropylamine)	75-31-0	178 g/L
Other non-hazardous ingredients	-	Balance

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

If inhaled

Remove affected person to fresh air until recovered.

In case of skin contact

Wash affected areas thoroughly with soap and water.



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If irritation persists, seek medical advice.

In case of eye contact

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

Seek medical advice.

If swallowed

If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Do not give anything by mouth to a semi-conscious or unconscious person. Give a glass of water.

Advice to Doctor

Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Glyphosate is a chemical used mainly in herbicides. Ingestion and other exposures to the chemical can cause various symptoms. The type and severity of symptoms varies depending on the amount of chemical involved and the nature of the exposure. Symptoms of Chemical poisoning (Glyphosate) include Reduced urination, Cough, Diarrhea, Drowsiness, Swallowing difficulty, etc.

4.3. Indication of any immediate medical attention and special treatment needed

Call a physician or poison control center immediately

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

Water, foam, carbon dioxide or dry chemical.

5.2. Special hazards arising from the substance or mixture

- | | |
|------------------|---|
| Fire hazard | : If involved in a major fire, could evolve oxides of nitrogen or phosphorus. |
| Explosive hazard | : Product is not explosive. |
| Reactivity | : This product, or spray solutions of this product, react with galvanized steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture. |



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5.3. Special protective equipment and precautions for fire fighters

Breathable air apparatus may have to be worn if material is involved in fires, especially in confined spaces.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Spills & Disposal:

Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).

Collect in sealed open top containers for disposal.

Final clean-up with degreasing agent or detergent is advised.

Refer to Section 8 for Personal Protection Equipment (PPE).

6.2. Environmental precautions

Prevent from entering drains, waterways or sewers.

6.3. Methods and materials for containment and cleaning up

Reposition any leaking containers so as to minimise leakage.

Dam and absorb spill with an absorbent material (eg sand or soil).

Shovel the absorbed spill and material into sealable open-top containers for disposal.

Dispose of at a landfill in accordance with local regulations. Refer Section 13.

Place damaged containers in recovery bins (if available) and if necessary return to Grow Choice.

Use vacuum equipment with high efficiency particulate air filters or sweep up without dust generation. Collect in a suitable, closed container to dispose and clean the spilled area with water.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For personal protective equipment (PPE) and hygiene advice, refer Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Store in the closed, original container in a dry, well ventilated area out of direct sunlight.

Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters-exposure standards, biological monitoring

No exposure standard has been established for this product.

8.2. Appropriate engineering controls



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Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that dusts and mists are minimised.

8.3. Personal Protection Equipment

When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles.

Hygiene Measures: After each day's use, wash contaminated clothing and safety equipment. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

SECTION 9: Physical and chemical properties

9.1. Information on basic 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 °C
e) Initial boiling point and boiling range	: Approximately 100 °C at 100kPa
f) Flash point	: None
g) Flammability (solid, gas)	: None combustible material
h) Vapour pressure	: 2.37kPa at 20 °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)

9.2. Other information

Persistent foam: 20mL maximum, after 1 min.

SECTION 10: Stability and reactivity

10.1. Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

10.2. Chemical stability

Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.



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10.3. Incompatible materials and possible hazardous reactions

Strong oxidising agents. Do not mix or store the product or spray solutions in galvanized steel or unlined steel (except stainless steel). Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime. Such contact may release isopropylamine vapour with a strong fish like odour, which is an irritant to eyes. Isopropylamine is moderately toxic, LD50 (oral, rat) is 820 mg/kg and a TLV of 5 ppm (TWA) has been set.

10.4. Conditions to avoid

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminium, brass, copper, fiberglass, plastic or plastic lined containers or spray tanks since a highly flammable gas may be formed.

10.5. Hazardous decomposition products

This product is likely to decompose only after heating to dryness, followed by further strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.

SECTION 11: Toxicological information

11.1. Information on routes of exposure and symptoms related to exposure

No harmful effects are expected if the precautions on the label and the SDS are followed.

Eyes and skin exposure may cause irritating effects.

Skin corrosion/irritation

Irritation to skin

Serious eye damage/eye irritation

Serious irritation to eye

11.2. Immediate, delayed and chronic health effects from exposure

Acute toxicity

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	The concentrated product may cause irritation on contact. Prolonged contact is likely to result in irritation.
Skin sensitization	Do not cause sensitisation



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Germ cell mutagenicity

The compound does not cause mutations in microbes. The tests on eight different kinds of bacterial strains and on yeast cells were all negative. The compound poses little mutagenic risk to humans.

Carcinogenicity

Rats and dogs and mice fed glyphosate over a wide range of doses showed no cancer related effects directly due to the compound. EPA has stated that there is sufficient evidence to conclude that glyphosate is not carcinogenic in humans.

Reproductive toxicity

Most of the field and laboratory evidence shows that glyphosate produces no reproductive changes in test animals. It is unlikely that the compound would produce any reproductive effects in humans.

Teratogenic toxicity

In a teratology study with rabbits, the maternal NOEL was 175 mg/kg/day and no developmental toxicity was observed in the fetuses at the highest dose tested (350 mg/kg/day).

Rats given doses up to 3,500 mg/kg on days 6 to 19 of pregnancy had offspring with no teratogenic effects, but other toxic effects were observed in both the mothers and the fetuses. No toxic effects to the fetuses occurred at 1,000 mg/kg/day.

11.3. Exposure Levels/Chronic effects

Subchronic and chronic tests with glyphosate have been conducted with rats, dogs, mice, and rabbits in studies lasting from 21 days to two years. With few exceptions there were no treatment-related gross (easily observable) or cellular changes. In a chronic feeding study with rats, no toxic effects were observed in rats given doses as high as 31 mg/kg/day, the highest dose tested. No toxic effects were observed in a chronic feeding study with dogs fed up to 500 mg/kg/day, the highest dose tested. Mice fed glyphosate for 90 days exhibited reduced body weight gains. The lifetime administration of very high amounts of glyphosate produced only a slight reduction of body weight and some microscopic liver and kidney changes. Blood chemistry, cellular components, and organ function were not affected even at the highest doses.

Hens fed massive amounts over three days and again 21 days later showed no nerve related effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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



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12.5. Other adverse effects

No data is available

SECTION 13: Disposal considerations

13.1. Safe handling and disposal methods

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).

13.2. Disposal of any contaminated packaging

Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

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 for appropriate disposal at 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.

Empty containers and product should not be burnt.

13.3. Environmental regulations

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non-returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in 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.

SECTION 14: Transport information

14.1. UN number

UN-No. : Not allocated

14.2. UN proper shipping name

Not allocated



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14.3. Transport hazard class(es)

Class (UN) : Not allocated

Hazard labels (UN) : Not allocated

14.4. Packaging group

Packing group (UN) : Not allocated

14.5. Environmental hazards

Dangerous for the environment : Low toxicity to aquatic environment.

IMDG Marine pollutant : Not dangerous when transported by sea or air.

Other information : N/A

14.6. Special precautions for user

Wash hands and exposed skin thoroughly after handling.

Wear protective gloves, clothing, eye and face protection.

14.7. Hazchem Code

2X

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

16.1. Date of preparation or last revision of SDS



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Revised 11/23/2016

Revisions Highlighted: The SDS was reviewed to include GHS requirements.

16.2. Contact Point

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Telephone: 03 9863 8081

Facsimile: 03 9863 8083

16.3. Key/legend to abbreviations and acronyms used in the SDS

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail)

IMDG Code: International Maritime Dangerous Goods

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.