



# Safety Data Sheet

**SANONDA**  
(AUSTRALIA) PTY LTD

Infosafe Issue Date : August 2015 ISSUED by SANONDA

Product Name **SICKLE 540 HERBICIDE**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** Sickle 540 Herbicide

**Product Code** 7200

**Product Type** Group M Herbicide

**Company Name** Sanonda (Australia) Pty Ltd (ABN 23 059 813 973)

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

**Telephone/Fax Number** Tel: +61 3 9863 8081  
Fax: +61 3 9863 8083

**Emergency phone number** +61 3 9863 8081

**Recommended use of the chemical and restrictions on use** Water soluble herbicide for non-selective control of many annual and perennial weeds.

**Other Information** This Safety Data Sheet describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Eye Damage/Irritation: Category 2A  
Skin Corrosion/Irritation: Category 2

**Signal Word (s)** WARNING

**Hazard Statement (s)** Causes serious eye irritation.  
Causes skin irritation.

**General Precautionary Statement (s)** If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.

**Pictogram (s)** Read label before use.  
Exclamation mark



**Precautionary statement – Prevention** Wash hands and exposed skin thoroughly after handling.  
Wear protective gloves, clothing, eye and face protection.

**Precautionary statement – Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.

**Other Information** Poisons Schedule S5

## 3. Composition/information on ingredients

Chemical Characterization Ingredients	Name	CAS	Proportion
	Liquid		
	Glyphosate acid	1071-83-6	540 g/L
	isopropylamine	75-31-0	189 g/L
	Other non-hazardous ingredients	--	to 100



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## 4. First-aid measures

**Inhalation** Remove affected person to fresh air until recovered.

**Ingestion** 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.

**Skin** Wash affected areas thoroughly with soap and water.  
If irritation persists, seek medical advice.

**Eye contact** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice.

**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

**Advice to Doctor** Treat symptomatically.

## 5. Fire-fighting measures

**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.

**Hazards from Combustion Products** Keep upwind.  
This product, or spray solutions of this product, react with galvanised steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly flammable or explosive gas mixture.  
If involved in a major fire, could evolve oxides of nitrogen or phosphorus.

**Special Protective Equipment for fire fighters** Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

**Other Information** STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. Accidental release measures

**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.

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

**Precautions for Safe Handling** For personal protective equipment (PPE) and hygiene advice, refer Section 8.

**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.

**Other Information** Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

**Occupational exposure limit values** No exposure standard has been established for this product.

**Appropriate engineering controls** No special ventilation required.

**Personal Protective 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



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**Requirements Concerning Special Training** thoroughly with soap and water.  
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.

## 9. Physical and chemical properties

**Form** Liquid

**Appearance** Clear, colourless to slight amber liquid

**Odour** Not available

**Melting Point** Not available

**Boiling Point** Not available

**Solubility in Water** Completely soluble

**Specific Gravity** 1.24 at 20 oC

**pH** 4.9 - 5.1 (neat), 4.3 - 4.7 (7% w/w solution)

**Volatile Component** N/A

**Flash Point** Not relevant

**Flammability** Not relevant

## 10. Stability and reactivity

**Incompatible Materials** Corrosive to mild steel, galvanised steel and zinc.  
Non corrosive to stainless steel, polyethylene and plastics.  
Do not mix, store or apply the product or spray solutions of the product in galvanised steel or unlined steel (except stainless steel) containers or spray tanks.

**Hazardous Polymerization** Hazardous polymerisation is not possible.

## 11. Toxicological Information

**Toxicology Information** No harmful effects are expected if the precautions on the label and this MSDS are followed.

**Acute Toxicity - Oral** LD50 (rat) > 5000 mg/kg (Glyphosate isopropylamine salt)

**Acute Toxicity - Dermal** LD50 (rabbits) >5000 mg/kg (Glyphosate isopropylamine salt)

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) > 1.3 mg/L (Glyphosate isopropylamine salt)

**Ingestion** The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea. Ingestion of a large quantity of the undiluted product may result in hypotension and pulmonary oedema.

**Inhalation** When applying the product as a spray avoid breathing in spray mists. May cause irritation to mucous membranes and respiratory tract.

**Skin** The concentrated product may cause slight irritation on contact. Prolonged contact is likely to result in irritation.

**Reproductive Effects** 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

**Teratogenicity** 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.

**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.



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**Organ Toxicity** Glyphosate caused no changes in the rate of body weight gain, in blood, nor in kidneys or liver. The studies were conducted at doses up to 500 mg/kg.

## 12. Ecological information

**Persistence and degradability** Adsorption studies indicate that glyphosate has very low mobility. Average field half life of glyphosate is 47 days.  
**Known Harmful Effects on the Environment** Harmful to fish and other aquatic organisms (mainly due to the surfactant).

**Other Precautions** Do not spray in high winds.  
Do not contaminate dams, waterways or sewers with this product.

**Environmental Protection** Glyphosate is a non-selective contact herbicide.  
Spray drift can cause damage, read the label for more information.

**Acute Toxicity - Fish** The following is data for a similar product.  
LC50 (96hr) for bluegill sunfish is 5.8 - 14 mg/l.  
LC50 (96hr) for rainbow trout is 8.2 - 26 mg/l.  
LC50 (96hr) for fathead minnow is 9.4 mg/l.  
TL50 (96hr) carp is 19.7 ppm

**Acute Toxicity - Other Organisms** The following data is for the active ingredient, glyphosate.  
Birds: Not toxic to birds. LD50 for bobwhite quail is >3850 mg/kg  
Bees: Not toxic to bees. LD50 >100 µg/bee.

## 13. Disposal considerations

**Product Disposal** 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®).

**Container Disposal** 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.  
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.  
Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

## 14. Transport information

**Transport Information** It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

**Storage and Transport** Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Other Information** Not dangerous when transported by sea or air.

## 15. Regulatory information

**Poisons Schedule** S5

**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 68925.

## 16. Other Information



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ISSUED by SANONDA

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**Date of preparation** Revised 28/08/2015  
**or last revision of** This SDS replaces document dated Sept 2011.  
**SDS**

**Contact** Sanonda (Australia) Pty Ltd  
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**Revisions** The SDS was reviewed. Minor changes were made to the information.  
**Highlighted** See specific gravity data in section 9.  
...End Of MSDS...

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