



# Safety Data Sheet

**SANONDA**  
(AUSTRALIA) PTY LTD

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Infosafe Issue Date : August 2015 ISSUED by SANONDA

Product Name **SANOS 450 NON SELECTIVE HERBICIDE BY SANONDA**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** Sanos 450 Non Selective Herbicide By Sanonda

**Product Code** 7089

**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 1  
Acute Toxicity - Oral: Category 4  
Skin Corrosion/Irritation: Category 2

**Signal Word (s)** DANGER

**Hazard Statement (s)** Causes serious eye damage.  
Harmful if swallowed.  
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.  
Read label before use.

**Pictogram (s)** Corrosion, Exclamation mark



**Precautionary statement - Prevention** Wear protective gloves, clothing, eye and face protection.  
Wash hands and exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.

**Precautionary statement - Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Rinse mouth.  
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** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
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Glyphosate acid	1071-83-6	450 g/L
Isopropylamine	75-31-0	--
Other non-hazardous ingredients	--	to 100

## 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered.
<b>Ingestion</b>	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.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. If irritation persists, seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	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.
<b>Hazards from Combustion Products</b>	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.
<b>Special Protective Equipment for fire fighters</b>	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	For personal protective equipment (PPE) and hygiene advice, refer Section 8.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standard has been established for this product.
<b>Appropriate engineering controls</b>	No special ventilation required.



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**Personal Protective Equipment** When preparing product for use wear elbow-length PVC gloves and face shield or goggles.  
When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear.

**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.

**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.

## 9. Physical and chemical properties

**Form** Liquid

**Appearance** Clear, viscous, blue-coloured solution

**Odour** Slight amine odour/odourless

**Melting Point** ~0°C

**Boiling Point** ~100°C at 100kPa

**Solubility in Water** Soluble in water.

**Specific Gravity** 1.21 g/mL

**pH** 4.5-5.5

**Volatile Component** water component. Active ingredient is considered non-volatile

**Flash Point** >100°C

**Flammability** Non combustible material.

## 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.

**Possibility of hazardous reactions** 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.

**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) >5,0 00 mg/kg, Practically Non-toxic

**Acute Toxicity - Dermal** LD50 (rabbit) >5,0 00 mg/kg, Practically Non-toxic

**Acute Toxicity - Inhalation** LC50 (rat) (4hr) 1.3 mg/l (analytical conc.), slightly Toxic

**Ingestion** Data suggests that the product should be considered to be slightly toxic by ingestion.

**Inhalation** Data suggests that the product should be classified as moderately irritating by inhalation. May cause coughing and chest discomfort.



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<b>Skin</b>	Data suggests that the product should be classified as slightly irritating to the skin
<b>Eye</b>	The concentrate may cause severe irritation of the eyes unless washed off immediately. Prolonged contact with the concentrate may cause damage to the eye.
<b>Reproductive Effects</b>	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.
<b>Teratogenicity</b>	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.
<b>Mutagenicity</b>	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.
<b>Carcinogenicity</b>	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.
<b>Organ Toxicity</b>	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

<b>Persistence and degradability</b>	Adsorption studies indicate that glyphosate has very low mobility. Average field half life of glyphosate is 47 days.
<b>Other Precautions</b>	Do not spray in high winds.
<b>Environmental Protection</b>	Do not contaminate dams, waterways or sewers with this product. Glyphosate is a non-selective contact herbicide. Spray drift can cause damage. LC50 (96hr) for rainbow trout is 8.2 - 26 mg/l.
<b>Acute Toxicity - Fish</b>	Not toxic to fish.
<b>Acute Toxicity - Daphnia</b>	The above data is for the formulated product. EC50 (48hr) for daphnia is 11 mg/l for technical glyphosate.
<b>Acute Toxicity - Algae</b>	EC50 (72hr) for algae 4.4 mg/l for technical glyphosate.
<b>Acute Toxicity - Other Organisms</b>	The following data is for the active ingredient, glyphosate. Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail (diet) is 2000 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee.

## 13. Disposal considerations

<b>Product Disposal</b>	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®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or 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 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. 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



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**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.

## 15. Regulatory information

**Poisons Schedule** S5

**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 47204.

## 16. Other Information

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

**Contact Person/Point** Sanonda (Australia) Pty Ltd  
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**Revisions Highlighted** The SDS was reviewed to include GHS requirements.  
...End Of MSDS...

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