



Infosafe	Issue Date : August 2015	ISSUED by SANONDA
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Product Name **SANOS 360 NON SELECTIVE HERBICIDE**

Not classified as hazardous

1. Identification

GHS Product Identifier	Sanos 360 Non Selective Herbicide
Product Code	7090
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

General	If medical advice is needed, have product container or label at hand.
Precautionary Statement (s)	Keep out of reach of children. Read label before use.
Other Information	Poisons Schedule S5 Not classified as hazardous under the GHS criteria.

3. Composition/information on ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Glyphosate acid	1071-83-6	360 g/L
	Isopropylamine	75-31-0	--
	Other non-hazardous ingredients	--	to 100

4. First-aid measures

Inhalation	Remove affected person to fresh air until recovered. Obtain medical advice.
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. Rinse mouth thoroughly with water.
Skin	Remove contaminated clothing and launder before re-use. 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.
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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.
Special Protective Equipment for fire fighters	If involved in a major fire, could evolve oxides of nitrogen or phosphorus. 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. Do NOT spray in high winds.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in 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 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	1.17 g/mL
pH	4.5 - 5.5
Vapour Pressure	2.37 kPa at 20 °C (water vapour pressure)
Flash Point	Does not burn



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Flammability Non combustibile 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 and ammonia vapour with a fish like odour, which can be 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.
TLV (TWA) for ammonia is 25ppm.

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) 5,400 mg/kg, Practically Non-toxic

Acute Toxicity - Dermal LD50 (rabbit) >5000 mg/kg, Practically Non-toxic

Acute Toxicity - Inhalation LC50 (rat) (4hr) 3.18 mg/l (analytical conc.), Slightly Toxic.

Eye Irritation (Rabbit, 24-hr) (FHSA) 4.1 on a scale of 110.0, Slightly Irritation.

Skin Irritation (Rabbit, 24-hr) (FHSA) 4.3 on a scale of 8.0, Moderately Irritation.

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.

Mutagenic 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.

Carcinogenic 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.

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 Glyphosate products do not appear to pose any threat to birds.

Other Precautions Do not spray in high winds.
Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.



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Environmental Protection	Glyphosate is a non-selective contact herbicide. Spray drift can cause damage, read the label for more information. This product is permitted for the control of certain weed species in waterways. Carefully read the precautions under 'Aquatic Weed Control' in the 'Directions For Use' table on the label.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is >989 mg/l. LC50 (96hr) for carp is >895 mg/l Not toxic to fish. The above data is for the formulated product.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is 675 µg/l for the formulated product
Acute Toxicity - Algae	EC50 (72hr) for algae 150 mg/l.
Acute Toxicity - Other Organisms	Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail (diet) is >5620 mg/kg Bees: Not toxic to bees. LD50 >100 µg/bee. LC50 (96hr) for leopard frog tadpole is >1040 mg/

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 inner bladder or containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. 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. 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. DO NOT burn empty containers or product.

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.

15. Regulatory information

Poisons Schedule	S5
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 46064.

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 Suite 822, St Kilda Road Towers, No. 1 Queens Road, Melbourne VIC 3004 Telephone: +61 3 9863 8081 Facsimile: +61 3 9863 8083



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**Revisions
Highlighted**

The SDS was reviewed due to a formulation change. Various changes have been made through out this document.

Product is now coloured green.
...End Of MSDS...

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