



Safety Data Sheet

SANONDA
(AUSTRALIA) PTY LTD

Page: 1 of 5

Infosafe Issue Date : December 2018 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)

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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

Ingredients	Name	CAS	Proportion
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Safety Data Sheet

SANONDA
(AUSTRALIA) PTY LTD

Page: 2 of 5

Infosafe Issue Date : December 2018 ISSUED by SANONDA

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

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Glyphosate acid	1071-83-6	450 g/L
Isopropylamine	75-31-0	157 g/L
Other non-hazardous ingredients	--	Balance

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.



Safety Data Sheet

SANONDA
(AUSTRALIA) PTY LTD

Page: 3 of 5

Infosafe Issue Date : December 2018 ISSUED by SANONDA

Product Name **SANOS 450 NON SELECTIVE HERBICIDE BY SANONDA**
Classified as hazardous

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) >5,000 mg/kg, Practically Non-toxic

Acute Toxicity - Dermal LD50 (rabbit) >5,000 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.



Safety Data Sheet

SANONDA
(AUSTRALIA) PTY LTD

Page: 4 of 5

Infosafe Issue Date : December 2018 ISSUED by SANONDA

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

Classified as hazardous

Skin	Data suggests that the product should be classified as slightly irritating to the skin
Eye	Data suggests that the product should be classified as moderately irritating to the eyes.
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 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.
Other Precautions	Average field half life of glyphosate is 47 days. Do not spray in high winds.
Environmental Protection	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.
Acute Toxicity - Fish	Not toxic to fish. The above data is for the formulated product.
Acute Toxicity - Daphnia	EC50 (48hr) for daphnia is 11 mg/l for technical glyphosate.
Acute Toxicity - Algae	EC50 (72hr) for algae 4.4 mg/l for technical glyphosate.
Acute Toxicity - Other Organisms	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

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. 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

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

SANONDA
(AUSTRALIA) PTY LTD

Page: 5 of 5

Infosafe Issue Date : December 2018 ISSUED by SANONDA

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Classified as hazardous

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 04/12/2018
This SDS replaces document dated May 2011.

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Revisions Highlighted The SDS was reviewed to include GHS requirements.

...End Of MSDS...

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