SANONDA
(AUSTRALIA) PTY LTD

Ph: 03 9863 8081/ Fax: 03 9863 8083
Suite 822, St Kilda Road Tower,
1 Queens Road, Melbourne, VIC 3004
email@sanondaoz.com
www.sanondaoz.com

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifiers

Product name : Sanos 450 Non Selective Herbicide By Sanonda

Active ingredient : Glyphosate IPA salt

Product code : 7089

1.2. Other means of identification

IUPAC name:

Glyphosate: *N*-(phosphonomethyl)glycine IPA salt.

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.

TEL: +61 3 9863 8081

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email@sanondaoz.com

1.4. Emergency telephone number

Emergency number : +61 3 9863 8081

SECTION 2: Hazards identification

Statement of Hazardous Nature

SUSMP Classification: S5

ADG Classification: Class 9: Miscellaneous Dangerous Goods.

UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLYPHOSATE).

GHS SIGNAL WORD	WARNING
GHS CLASSIFICATIONS	Skin Irritation Category 2
	Eye irritation Category 2B
	Hazardous the aquatic environment (chronic) – category 2

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PICTOGRAMS

HAZARD STATEMENT:

H315: Causes skin irritation.

H320: Causes eye irritation.

H411: Toxic to aquatic life with long-lasting effects.

PREVENTION

P234: Keep only in original container.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

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Emergency Overview

Physical Description & Colour: Clear blue liquid

Odour: Odourless to mild amine odour

Major Health Hazards: Glyphosate is practically nontoxic by ingestion and skin absorption, with a reported acute oral LD50 of 5600 mg/kg in the rat. Glyphosate is reportedly not irritating to the skin of rabbits, and does not induce skin sensitization in guinea pigs. It does cause eye irritation in rabbits. Some formulations may cause much more extreme irritation of the skin or eyes. In a number of human volunteers, patch tests produced no visible skin changes or sensitization. Irritating to eyes and skin.

SECTION 3: Composition/information on ingredients

Ingredients	CAS No	Concentration, g/L	TWA (mg/m^3)	STEL (mg/m^3)
Glyphosate isopropylamine salt	38641-94-0	50g/L	not set	not set
Non-hazardous ingredients	Proprietary	Balance to volume	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly

SECTION 4: First aid measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g.watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

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SECTION 5: Firefighting measures

Fire and Explosion Hazards:

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating.Fire decomposition products from this product are likely to be irritating if inhaled.

Extinguishing Media:

Not combustible. Use extinguishing media suited to burning materials.

Fire Fighting:

If a significant quantity of this product is involved in a fire, call the fire brigade.

Flammability Class:

Does not burn.

SECTION 6: Accidental release measures

PERSONAL PRECAUTIONS:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

ENVIRONMENTAL PRECAUTIONS:

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

OCCUPATIONAL SPILL:

Remove all sources of flames and sparks. For small liquid spills, soak up with lime, damp earth or sand, or other noncombustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

SECTION 7: Handling and storage

Handling:

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed.The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

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Storage:

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

SECTION 8: Exposure controls/personal protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:Respiratory equipment: **AS/NZS 1715,** Protective Gloves: **AS 216**1, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: AS1336 and **AS/NZS 1337,** Occupational Protective Footwear: **AS/NZS2210.** Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Glyphosate, isopropylamine salt is set at 0.3mg/kg/day. The corresponding NOEL is set at 30mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, March 2017.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: There is no data that enables us to recommend any type except that it should be impermeable.

Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consul t he Australian Standard mentioned above. Eye baths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially. provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

SECTION 9: Physical and chemical properties

Physical Description & colour: Clear blue liquid

Odour: Odourless to mild amine odour

Boiling Point: Approximately 100°C at 100kPa.

Flash point: Will not burn until water component is driven off.

Upper Flammability Limit: Does not burn.

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Lower Flammability Limit: Does not burn.

Autoignition temperature: Does not burn.

Freezing/Melting Point: Approximately 0°C.

Volatiles: Water component.

Vapour Density: As for water.

Specific Gravity: Approx 1.19-1.20

Water Solubility: Completely soluble in water.

pH: 4.5-5.5

Volatility: No data.

Odour Threshold: No data.

Evaporation Rate: As for water.

Coefficient in Oil/water Distribution: No data

SECTION 10: Stability and reactivity

Reactivity: In contact with incompatible materials (either during storage or mixing), a highly flammable gas may be formed, posing an explosion risk.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.

Incompatibilities: galvanised steel, unlined steel (except stainless steel).

Fire Decomposition: This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of phosphorus and other phosphorus compounds.Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision,disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product will not undergo polymerisation reactions.

SECTION 11: Toxicological information

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Toxicity: An information profile for Glyphosate is available at http://extoxnet.orst.edu/pips/ghindex.html

Acute toxicity: Oral LD_{50} values for glyphosate are greater than 10,000 mg/kg in mice, rabbits, and goats. The toxicities of the technical acid (glyphosate) and the formulated product are nearly the same. It is practically nontoxic by skin exposure, with reported dermal LD_{50} values of greater than 5000 mg/kg for the acid and isopropylamine salt.The trimethylsulfonium salt has a reported dermal LD_{50} of greater than 2000 mg/kg. The reported 4-hour rat inhalation LC_{50} values for the technical acid and salts were 5 to 12 mg/L, indicating moderate toxicity via this route. Some formulations may show high acute inhalation toxicity. While it does contain a phosphatyl functional group, it is not structurally similar to organophosphate pesticides which contain organophosphate esters, and it does not significantly inhibit cholinesterase activity.

Chronic toxicity: Studies of glyphosate lasting up to 2 years, have been conducted with rats, dogs, mice, and rabbits, and with few exceptions no effects were observed. For example, in a chronic feeding study with rats, no toxic effects were observed in rats given doses as high as 400 mg/kg/day. Also, no toxic effects were observed in a chronic feeding study with dogs fed up to 500 mg/kg/day, the highest dose tested.

Reproductive effects: Laboratory studies show that glyphosate produces reproductive changes in test animals very rarely and then only at very high doses (over 150 mg/kg/day). It is unlikely that the compound would produce reproductive effects in humans.

Teratogenic effects: In a teratology study with rabbits, no developmental toxicity was observed in the foetuses at thehighest dose tested (350 mg/kg/day). Glyphosate does not appear to be teratogenic.

Mutagenic effects: Glyphosate mutagenicity and genotoxicity assays have been negative. It appears that glyphosateis not mutagenic.

Carcinogenic effects: There was limited evidence for Glyphosate of carcinogenicity in humans for non - Hodgkinlymphoma. The evidence in humans is from studies of exposures, mostly agricultural, in the USA, Canada, and Sweden published since 2001. In addition, there is convincing evidence that glyphosate also can cause cancer inlaboratory animals.In 2015, IARC classified glyphosate as ‘probably carcinogenic to humans’, but has since (May 2016) concluded glyphosate is unlikely to pose a carcinogenic or genotoxic risk to humans.

Organ toxicity: Some microscopic liver and kidney changes, but no observable differences in function or toxic effects, have been seen after lifetime administration of glyphosate to test animals.Fate in humans and animals: Glyphosate is poorly absorbed from the digestive tract and is largely excreted unchanged by mammals. At 10 days after treatment, there were only minute amounts in the tissues of rats fed glyphosate for 3 weeks. Cows, chickens, and pigs fed small amounts of glyphosate had undetectable levels (less than0.05 ppm) in muscle tissue and fat.

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Levels in milk and eggs were also undetectable (less than 0.025 ppm). Glyphosate has no significant potential to accumulate in animal tissue.

Potential Health Effects

Inhalation:

Short Term Exposure: Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: This product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but if treated promptly, all should disappear once exposure has ceased.

Long Term Exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product is not harmful. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

SECTION 12: ECOLOGICAL INFORMATION

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Effects on birds:

Glyphosate is not harmful to wild birds. The dietary LC_{50} in both mallards and bobwhite quail is greater than 4500 ppm.

Effects on aquatic organisms:

Technical glyphosate acid is practically nontoxic to fish and may be slightly toxic toaquatic invertebrates. The reported 96-hour LC_{50} values for other aquatic species include greater than 10 mg/L in Atlantic oysters, 934 mg/L in fiddler crab, and 281 mg/L in shrimp. The 48-hour LC_{50} for glyphosate in Daphnia (waterflea), an important food source for freshwater fish, is 780 mg/L. Some formulations may be more toxic to fish and aquatic species due to differences in toxicity between the salts and the parent acid or to surfactants used in the formulation. There is a very low potential for the compound to build up in the tissues of aquatic invertebrates or other aquatic organisms.

Effects on other organisms: Glyphosate is nontoxic to honeybees. Its oral and dermal LD_{50} is greater than 0.1 mg/bee. The reported contact LC_{50} values for earthworms in soil are greater than 5000 ppm for both the glyphosate trimethylsulfonium salt and formulated product.

Environmental Fate:

Breakdown in soil and groundwater: Glyphosate is moderately persistent in soil, with an estimated average half-lifeof 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 isbroken 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 isextensively metabolized by some plants, while remaining intact in others.

SECTION 13: Disposal considerations

PESTICIDE DISPOSAL:

Open dumping or burning of this pesticide is prohibited waste resulting from the use of this product that cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal.

CONTAINER DISPOSAL:

Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

SECTION 14: Transport information

Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L)or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Seatransport (see details below).

UN Number: 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (GLYPHOSATE)

Hazchem Code: •3Z

Special Provisions: 179, 274, 331, 335, AU01

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Limited quantities: ADG 7 specifies a Limited Quantity value of 5 L for this class of product.

Dangerous Goods Class: Class 9: Miscellaneous Dangerous Goods.

Packing Group: III

Packing Instruction: P001, IBC03, LP01

Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight container with Dangerous Goods of Class 1 (Explosives).

SECTION 15: REGULATORY INFORMATION

AIIC: All of the significant ingredients in this formulation are compliant with AICIS regulations.
The following ingredient: Glyphosate, isopropylamine salt, is mentioned in the SUSMP.
Poison Schedule: 5

SECTION 16. OTHER INFORMATION

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.

Date of Issue: 14th August 2026