



SAFETY DATA SHEET

G-PHOSATE 41

Date of Issue : 2nd Jan 2023

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	:	G-PHOSATE 41
Use of the Substance/Mixture	:	Herbicide / Agriculture Use
Formulation	:	Soluble Liquid (SL)
Company Identification	:	G-PLANTER SDN. BHD. (200401005370) No. 11 A, Jalan Mahsuri, Kawasan Perindustrian Kluang 1, 86000, Kluang, Johor.
Office Phone	:	07-7878488
Fax No.	:	07-7878480
Emergency Telephone No.	:	999

SECTION 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.
Pictogram	:	Read label before use.



Hazard statement	:	
H302	:	Harmful if swallowed
H312	:	Harmful if in contact with skin
H332	:	Harmful if inhaled

SECTION 3 – COMPOSITION /INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Concentration (% by weight)
Glyphosate, Isopropylammonium salt	38641-94-0	41.0 % w/w
Inerts	Non-hazardous	59.0 % w/w



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SECTION 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. 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.

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.

Advice to Doctor: Treat symptomatically.

SECTION 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.

Hazardous Combustion Products: Keep upwind. This product, or spray solutions of this product, react with galvanized 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.

SECTION 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.

Environment Precautions : Prevent from entering drains, waterways or sewers.

SECTION 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.



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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, fertilizers or foodstuffs.

Other information: Always read the label and any attached leaflet before use.

SECTION 8 – EXPOSURE CONTROLS AND 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 their job or business to have training in the application of the materials.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Appearance: Clear, yellow solution

Odor : Characteristic odor

Melting Point : ~ 0°C

Boiling point: ~100°C at 100kPa

Melting point: Not applicable

Vapor Pressure: 2.37 kPa at 20°C (water vapour pressure)

Specific gravity: 1.17 g/mL at 20°C

Solubility in water: Soluble in water.

pH: 4.5 – 6.0

Flash point: Does not burn

Flammability: Non combustible material.

SECTION 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 isopropylammonium and ammonia vapour with a



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fish like odour, which can be an irritant to eyes. Isopropylammonium 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 polymerization is not possible.

SECTION 11 – TOXICOLOGY INFORMATION

Toxicology information: No harmful effects are expected if the precautions on the label and this SDS are followed.

Acute studies :

Oral LD50 (rats): > 5000 mg/kg, Practically Non-toxic

Dermal (rabbits) : > 5000 mg/kg, Practically Non-toxic

Acute Inhalation LC50 (rats for 4h): > 1.0 mg/1

Eye Irritation : Mild irritant to rabbit eye.

Skin Irritation : Non skin sensitizer to guinea pigs.

Ingestion: The concentrate is 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 teratogenicity 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.



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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.

SECTION 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.

Environmental Protection: Glyphosate is non-selective contact herbicide. Spray drift can cause damaged , 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 (96 hr) for rainbow trout is > 1000 mg/l. Not toxic to fish. The above data is for the formulated product.

Acute Toxicity – Daphnia: EC 50 (48 hr) for daphnia is 675 µg/l for the formulated product.

Acute Toxicity – Algae: EC 50 (72 hr) 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 (oral, contact) >100 µg/bee. LC50 (96hr) for leopard frog tadpole is >1040 mg.

SECTION 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.

Container Disposal:

Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsing 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.

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.



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SECTION 14 – TRANSPORT INFORMATION

Transport Information Storage and Transport: It is good practice not to transport agricultural chemical products with food, food related materials and animals feedstuffs. Considered non-dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 15 – REGULATORY INFORMATION

This product is registered under Malaysia Pesticides Act 1974.

SECTION 16 – OTHER INFORMATION

This SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

-End of SDS-