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**GLYMOUNT 450 HERBICIDE**



**SAFETY DATA SHEET**

**SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY**

<b>Product Identifier</b>	<b>Glymount 450 Herbicide</b>
<b>Active Constituent</b>	Glyphosate (present as Isopropylamine salt) 450 g/L
<b>Other means of Identification</b>	Agricultural herbicide. Grow Choice product code number: 451 20 AVPMA registered number: 64254
<b>Recommended use of the chemical and restrictions on due</b>	A non- residual herbicide for the control of a broad range of Annual and Perennial Weeds.
<b>Suppliers name, address and phone number:</b>	Grow Choice Pty Ltd 113 Fitzroy Street   TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922   Email: admin@growchoice.com.au
<b>Emergency phone number:</b>	In Case Of Emergency Dial 000
<b>Poisons Information Centre</b>	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a>

**SECTION 2: HAZARDS IDENTIFICATION (continued on page 2)**

-  Classified as **HAZARDOUS** in accordance with the *Approved Criteria for Classifying Hazardous Substances* [NOHSC: 1008(2004) 3<sup>rd</sup> Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS).
-  Considered **non-dangerous** for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
-  Considered **DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

<b>Summary of Hazardous Identifications</b>	IMDG UN number: Poisons Schedule number: S5
<b>Classification of the hazardous chemical</b>	Eye damage - Category: 1 Hazardous to the aquatic environment (chronic) – Category 2
<b>Pictogram</b>	 
<b>Signal word</b>	<b>DANGER</b>
<b>General Precautionary Statements.</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
<b>Hazard Statements</b>	H318: Causes serious eye damage H411: Toxic to aquatic life with long lasting effects.
<b>Prevention Statements</b>	P280: Wear eye protection/face protection. P273: Avoid release to the environment.
<b>Response Statements</b>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P391: Collect spillage.

**Storage Statements**

Refer Section 7

**Disposal Statements**

P501: Dispose of contents and container in accordance with local, regional and national regulations.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredients</b>	<b>CAS number</b>	<b>Proportion</b>
Glyphosate (present as Isopropylamine salt)	1071-83-6	450 g/L
Balance secret and classified as non-hazardous		45%w/v

**SECTION 4 – FIRST AID MEASURES**

<b>Swallowed:</b>	Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance. 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.
<b>Eye:</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.
<b>Skin:</b>	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
<b>Inhaled:</b>	Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.
<b>Advice to Doctor</b>	Treat symptomatically.

**SECTION 5 – FIRE FIGHTING MEASURES**

<b>Fire/Explosion Hazard Dangerous Decomposition or Combustion Products Thermal Decomposition</b>	Not a fire or explosion hazard.
<b>Hazardous reactions</b>	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. The product or spray solutions of the product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture that can flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source. Spray solutions of the product should be mixed, stored and applied only in stainless steel, aluminium, fibreglass, plastic and plastic-lined steel containers.
<b>Extinguishing Media</b>	Extinguish fire with foam, dry powder, carbon dioxide or water spray.
<b>Fire Fighting</b>	Breathable air apparatus should be worn when fighting a fire in which this product is involved.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES (continued on page 3)**

<b>Personal precautions, protective equipment and emergency procedures</b>	In case of spillage it is important to take all steps necessary to: Instruct and ensure all bystanders to keep away from and upwind of spill/leak.
<b>Environmental precautions</b>	Avoid eye and skin contact; Do not breath dust;

<b>Methods and materials for containment and cleaning up</b>	<p>Ensure adequate ventilation;          Avoid contamination of waterways.          Refer to Section 8 for Personal Protection Equipment (PPE).          Reposition any leaking containers so as to minimise leakage.          Dam and absorb spill with an absorbent material (eg sand or soil) or proprietary absorbent such as vermiculite.          Shovel the absorbed spill into drums.          Collect in a suitable, closed container to dispose and clean the spilled area with water.</p>
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## SECTION 7 – HANDLING AND STORAGE

<b>Precautions for safe handling</b>	<p>Safe work practices are recommended.          Avoid contact with eyes and skin.          When opening the container and preparing spray wear appropriate PPE (refer Section 8).          Do not spray under high wind conditions.          Hygiene measures:          When using products, do not eat, drink or smoke.          Contaminated work clothing should not be allowed out of the workplace.          Wash hands thoroughly with soap and water after use and before eating, drinking, smoking/using tobacco, chewing gum, using the toilet or applying cosmetics.          After each day's use, wash gloves, face shield or goggles and contaminated clothing.          Avoid contact with eyes and skin.</p>
<b>Conditions for safe storage, including any incompatibilities:</b>	<p>Keep out of reach of children, unauthorised persons and animals.          Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food.          Store out of direct sunlight and extreme temperature.          Always read the label and any attached leaflet before use.</p>

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued on page 4)

<b>Control parameters – exposure standards, biological monitoring</b>	<p>Control process conditions to avoid contact. Use in a well-ventilated area only. Use local exhaust ventilation to keep exposure levels below the exposure limits above. Keep stored in original container in a cool, well ventilated area, keeping the lid closed at all-times whilst in storage.</p>
<b>Appropriate engineering controls</b>	<p>No special ventilation required. No exposure standard has been established for this product.</p>
<b>Personal protective equipment (PPE)</b>	<p>When opening the container, preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant and face shield or goggles.</p> <p>When using the prepared spray cotton overalls buttoned to the neck and wrist and a washable hat and optional once chemical is prepared for use, elbow length PVC chemical resistant and face shield or goggles if protected from spray drift/contamination.</p> <p>Face and Eye Protection: Face shield or goggles.          Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.          Gloves: Elbow-length chemical resistant PVC gloves.          Respiratory: If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn.</p> <p>Recommended to use Australian and New Zealand Standard PPE:          Overalls AS 3765, Clothing for protection against Hazardous chemicals          Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical)</p>

gloves)

Goggles and face shield AS/NZS 1337, Eye protectors for industrial applications.

Footwear AS/NZS 2210, Occupational protective footwear

Respirators AS NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices

AS/NZS 1716, Respiratory Protective Devices

**Requirements Concerning Training** Check State and/or Territory regulations that require people who use pesticides in their job or business to have adequate training in the application of the materials.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Form: Colour:</b>	Liquid Clear blue liquid
<b>Odour:</b>	Slight ammine odour
<b>Boiling Point (qC):</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	1.20 ± 0.01
<b>Flashpoint:</b>	Non flammable
<b>Solubility:</b>	Soluble in water

## SECTION 10 – STABILITY AND REACTIVITY

<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.
<b>Materials to Avoid.</b>	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.
<b>Hazardous Reaction</b>	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.

## SECTION 11 – TOXICOLOGICAL INFORMATION (continued on page 5)

<b>Inhalation</b>	When applying the product as a spray, avoid breathing in spray mists. May cause irritation to mucous membranes and respiratory tract.
<b>Ingestion</b>	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.
<b>Skin</b>	The concentrated product may cause slight irritation on contact. Prolonged contact is likely to result in irritation.
<b>Eye</b>	The concentrate may cause irritation of the eyes. Prolonged contact with the concentrate may cause damage to the eye.
<b>Chronic Effects</b>	No information available, no chronic effects expected.
<b>Reproductive</b>	No data available
<b>Toxicity</b>	No harmful effects are expected if the precautions on the label and this SDS.
<b>Mutagenicity</b>	No data available

<b>Carcinogenicity</b>	No data available
<b>Acute Toxicity - Oral</b>	LD50 (rat) >5000 mg/kg for a similar formulation
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >5000 mg/kg for a similar formulation
<b>Acute Toxicity - Inhalation</b>	No data available
<b>Eye Irritation</b>	Slight irritant
<b>Skin Irritation</b>	Slight irritant
<b>Skin Sensitisation</b>	Slight irritant
<b>Data limitations</b>	The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 30 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2014).

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Known Harmful Effects on the Environment</b>	Harmful to fish and other aquatic organisms (mainly due to the surfactant).
<b>Other Precautions</b>	Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.
<b>Environ. Protection</b>	Glyphosate is a non-selective contact herbicide. Spray drift can cause damage.
<b>Persistence / Degradability</b>	Adsorption studies indicate that glyphosate has very low mobility. Average field half-life of glyphosate is 47 days.
<b>Acute Toxicity – Fish</b>	The following is data for a similar product. LC <sub>50</sub> (96 hr) for bluegill sunfish is 5.8 - 14 mg/l. LC <sub>50</sub> (96 hr) for rainbow trout is 8.2 - 26 mg/l. LC <sub>50</sub> (96 hr) for fathead minnow is 9.4 mg/l. TL <sub>50</sub> (96hr) carp is 19.7 ppm
<b>Acute Toxicity – Other Organisms</b>	Birds: Not toxic to birds. LD <sub>50</sub> for bobwhite quail is >3850 mg/kg Bees: Not toxic to bees. LD <sub>50</sub> >100 µg/bee.

## SECTION 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 rinsate 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 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. DO NOT burn empty containers or product. 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.

## SECTION 14 – TRANSPORT INFORMATION

**General Transport Information** It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.

**Land** Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)

**Sea and Air** Considered **DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14

### Sea Transport

UN Number 3077:

Class 9 (miscellaneous Dangerous Goods; Packing Group III; Marine Pollutant; Hazchem Code 2Z; Hazchem Identification Number: (HIN) 90; Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains glyphosate as the isopropylamine salt

## SECTION 15: REGULATORY INFORMATION

### Regulatory Information

**Poisons Schedule** S5

**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: **64254**

## SECTION 16: ANY OTHER RELEVANT INFORMATION

This Safety Data Sheet (SDS) was completed 20 January 2017. First SDS.

### Acronyms:

AVPMA: Australian Pesticides and Veterinary Medicines Authority.

GHS: Globally Harmonised system of Classification and Labelling of chemicals

HSIS: Hazardous Substances Information System

NOHSC: National Occupational Health and Safety Commission

CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)

STEL Exposure standard - short term exposure limit.

AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment

ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals

ADG: Australian Dangerous Goods

IMDG: International Maritime Code of Dangerous Goods

IATA: International Air Transport Association

**End of SDS**

### DISCLAIMER:

This SAFETY DATA SHEET has been developed according to the Work Health and Safety Regulations (WHS Regulations) Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this SAFETY DATA SHEET is to describe product in terms of their safety requirements. Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product. The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with Relevant Federal, State and Local Government regulations