





### 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:</b>	A non- residual herbicide for the control of a broad range of Annual and Perennial Weeds.
<b>Details of manufacturer or importer:</b>	<b>Grow Choice Pty Ltd</b> ABN 36 161 264 884
<b>Address:</b>	<b>113 Fitzroy Street</b> <b>TAMWORTH NSW 2340</b> <b>AUSTRALIA</b>
<b>Website:</b>	<a href="http://www.growchoice.com.au">www.growchoice.com.au</a>
<b>Phone Number &amp; Email:</b>	<b>(02) 6766 3979 - <a href="mailto:admin@growchoice.com.au">admin@growchoice.com.au</a></b>
<b>Emergency Phone Number:</b>	<b>In Case Of Emergency Dial 000</b>
<b>Poisons Information Centre:</b>	<b>Phone: 13 11 26 and speak to a Poisons Information Specialist.</b> <b>Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a></b>

### Section 2: Hazards identification (cont. page 2)

	Classified as HAZARDOUS in accordance with the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004) 3rd 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>Precautionary Statements (Prevention):</b>	P280: Wear eye protection/face protection. P273: Avoid release to the environment.
<b>Precautionary Statements (Response):</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

<b>Storage:</b>	Refer Section 7.
<b>Disposal:</b>	P501: Dispose of contents and container in accordance with local, regional and national regulations.

### Section 3: Composition and information on ingredients

Components	CAS No	Proportion
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

<p><b>In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist. Take this SDS and or DFU/Label with you or when calling the Poisons Information Centre.</b></p>	
<b>General Advice:</b>	<p>If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.</p> <p><b>If 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.</p> <p><b>Skin Contact:</b> Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.</p> <p><b>Eye Contact:</b> If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.</p> <p><b>Ingestion:</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.</p>
<b>Advice to Doctor:</b>	Treat symptomatically

### Section 5: Fire fighting measures

<p><b>Fire/Explosion Hazard</b></p> <p><b>Dangerous Decomposition or Combustion Products</b></p> <p><b>Thermal Decomposition:</b></p>	<p>Not a fire or explosion hazard.</p>
<b>Hazardous reactions:</b>	<p>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.</p>
<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

<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 breathe dust; Ensure adequate ventilation; Avoid contamination of waterways. Refer to Section 8 for Personal Protection Equipment (PPE).
<b>Methods and materials for containment and cleaning up:</b>	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.

## Section 7: Handling and storage

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.	
<b>Precautions for safe handling:</b>	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.
<b>Conditions for safe storage, including any incompatibilities:</b>	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.

## Section 8: Exposure controls and personal protection (cont. page 4)

<b>Control Parameters:</b>	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.
<b>Appropriate engineering controls:</b>	No special ventilation required. No exposure standard has been established for this product.
<b>Individual protection measures, such as Personal Protective Equipment (PPE):</b>	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.  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.

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.

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 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>Appearance:</b>	Clear Blue Liquid	<b>Specific Gravity:</b>	1.20 ± 0.01
<b>Odour:</b>	Slight ammine odour	<b>Boiling Point (qC):</b>	Not applicable
<b>Flash Point:</b>	Non flammable	<b>Vapour Pressure:</b>	Not applicable
<b>Solubility in water:</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>Possibility of hazardous reactions:</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 (cont. 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 Contact:</b>	The concentrated product may cause slight irritation on contact. Prolonged contact is likely to result in irritation.
<b>Eye Contact:</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>Environmental 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

	<p>roots, in compliance with relevant local, state or territory government regulations.</p> <p>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.</p>
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## Section 14: Transport information

<b>General Transport Information:</b>	It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.
<b>Land:</b>	Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition).
<b>Sea and Air:</b>	Considered DANGEROUS for transport by sea and air in accordance with the IMDG Code 37-14.

### Sea Transport

<b>UN number:</b>	3077	<b>Packing group:</b>	III
<b>Hazard class:</b>	9 Miscellaneous Dangerous Goods Marine Pollutant		
<b>Proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains glyphosate as the isopropylamine salt)		
<b>Hazchem Identification Number:</b>	90	<b>Marine Pollutant</b>	

## Section 15: Regulatory information

<b>Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5 Poison</b>	
<b>Registration status:</b> Registered	<b>APVMA approval:</b> 64254

## Section 16: Any other relevant information

<p><b>Date of preparation or last revision:</b> This Safety Data Sheet was reviewed on 13 July 2021 and replaces MSDS dated 20 January 2017.</p>
<p><b>Acronyms:</b>  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</p>
<p><b>Source of Data:</b> The information provided in this SDS is sourced from Grow Choice studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.</p>
<p><b>Note:</b> This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions</p>
<p><b>CONTACT POINT:</b> Grow Choice Pty Ltd  (02) 6766 3979  <b>24 HOURS EMERGENCY CONTACT: 1800 033 111</b></p>

This Material Safety Data Sheet summarises 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.

**DISCLAIMER**

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Grow Choice's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Grow Choice shall have no liability.

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