


Section 1: Identification: Product identifier and chemical identity

Product Identifier:	KWICKNOCK 250 HERBICIDE
Active Constituent:	135g/L PARAQUAT present as PARAQUAT DICHLORIDE 115g/L DIQUAT present as DIQUAT DIBROMIDE
Other Means of Identification:	Agricultural Herbicide. Group L Herbicide Grow Choice product code number: 317 20 AVPMA registered number: 64802/0310
Recommended Use:	For the control of a wide range of grasses and broadleaf weeds as per the Directions for Use table.
Details of manufacturer or importer:	Grow Choice Pty Ltd ABN 36 161 264 884
Address:	113 Fitzroy Street TAMWORTH NSW 2340 AUSTRALIA
Website:	www.growchoice.com.au
Phone Number & Email:	(02) 6766 3979 - admin@growchoice.com.au
Emergency Phone Number:	In Case Of Emergency Dial 000
Poisons Information Centre:	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 http://www.chw.edu.au/poisons/contact.htm

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 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)	
SUSMP Classification: S7	
ADG Classification: Class 6.1: Toxic Substances	
UN Number: 3016, BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC	
Classification of the hazardous chemical:	Acute Toxicity Oral Category 1 or 2 Acute Toxicity Dermal Category 1 or 2 Skin Corrosion /Irritation Category 2 Skin Sensitisation Category 1 Serious eye damage/eye irritation Category 1 Acute Toxicity Inhalation Category 1/2 Specific Target Organ Toxicity - Single Exposure Category 3 Specific Target Organ toxicity - repeated exposure Category 1 Hazardous to aquatic environment Short term/Chronic Category 1
GHS Symbol:	
Signal code and word:	DANGER
Precautionary Statements (General):	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use

Hazard Statements:	H300: Fatal if swallowed. H310: Fatal in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H330: Fatal if inhaled. H335: May cause respiratory irritation. H372: Causes damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.
Prevention Statements:	P260: Do not breathe fumes, mists, vapours or spray. P262: Do not get in eyes, on skin, or on clothing. P264: Wash contacted areas thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well ventilated area. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves, protective clothing and eye or face protection. P284: Wear respiratory protection.
Response Statements:	P361: Remove all contaminated clothing immediately. P363: Wash contaminated clothing before reuse. P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313: If skin irritation or rash occurs: Get medical advice. P337+P313: If eye irritation persists: Get medical advice. P391: Collect spillage. P370+P378: Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires.
Storage:	P405: Store locked up. P410: Protect from sunlight. P403+P233: Store in a well-ventilated place. Keep container tightly closed. Refer Section 7
Disposal:	P501: Dispose of contents and containers as specified on the registered label and in accordance with local, regional and national regulations.
Other Information:	Poisons Schedule S7

Section 3: Composition and information on ingredients

Chemical ingredients: CAS number and other unique identifiers: Concentration of ingredients		
Component	CAS No	Proportion
Paraquat (dichloride salt)	1910-42-5	135 g/L
Diquat (dibromide salt)	85-00-7	115 g/L

Section 4: First aid measures (cont. page 3)

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.

General Advice:	Call The Poisons Information Centre, 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand), if you have been or suspect you may have been poisoned, burned or irritated by this product. Keep this SDS or Label with you when you call the Poisons Information Centre or attend a hospital/medical centre.
Swallow:	If swallowed, DO NOT induce vomiting. Rinse mouth out with water if patient is conscious. Seek urgent medical attention.

Eye:	If product gets in eyes, remove contact lenses if wearing and wash it out immediately with water for several minutes. Seek medical attention.
Skin:	Remove contaminated clothing and wash affected areas thoroughly with soap and water. Seek medical attention if concerned.
Inhaled:	Move affected person to fresh air and keep at rest until recovered. If inhaled remove to fresh air and keep at rest. Obtain medical advice if at all worried. If not breathing give artificial respiration and get medical attention as soon as possible.

Section 5: Fire fighting measures

Fire and Explosion Hazards:	The major hazard is inhalation of heated and toxic or oxygen deficient (or both), fire gases. There would be minimal risk of an explosion if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. Refer to Section 8 for PPE.
Suitable Extinguishing Media:	Carbon dioxide, dry chemical, and foam or water fog. Alcohol resistant foam or normal foam can be used. Try to contain spills, minimise spillage entering drains or water courses.
Fire Fighting:	<p>If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.</p> <p>Fire fighters should wear Safe Work Australia approved self-contained breathing apparatus (AS/NZS 1715/1716) and full protective gear. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of extinguishing agent and spillage safely later. Contamination of water bodies should be avoided.</p>
Flash Point:	Will not burn until water component is driven off.
Upper Flammability Limit:	Does not burn.
Lower Flammability Limit:	Does not burn.
Auto ignition temperature:	Does not burn.
Flammability Class:	Does not burn.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:	<p>In case of spillage it is important to take all steps necessary to:</p> <ul style="list-style-type: none"> Instruct and ensure all bystanders to keep away from and upwind of spill/leak. Avoid eye and skin contact; Do not breathe dust; Ensure adequate ventilation; Avoid contamination of waterways. <p>Refer to Section 8 for Personal Protection Equipment (PPE).</p>
Environmental precautions:	Avoid contamination of waterways.
Methods for containment and cleaning up:	<p>Reposition any leaking containers so as to minimise leakage.</p> <p>Dam and absorb spill with an absorbent material (eg sand or soil) or proprietary absorbent such as vermiculite.</p> <p>Shovel the absorbed spill into drums.</p> <p>Collect in a suitable, closed container to dispose and clean the spilled area with water.</p>

Section 7: Handling and storage

Precautions for safe handling:	<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.</p> <p>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>
Conditions for safe storage, including incompatibilities:	<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

Control parameters – exposure standards, biological monitoring:	<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.</p>
Appropriate engineering controls:	<p>Keep stored in original container in a cool, well-ventilated area, keeping the lid closed at all-times whilst in storage.</p>
Personal protective equipment (PPE):	<p>When opening the container and 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, wear 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.</p> <p>Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.</p> <p>Gloves: Elbow-length chemical resistant PVC gloves.</p> <p>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:</p> <p>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</p>
Requirements concerning special training:	<p>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.</p>

Carcinogen Status:	<p>SWA: No significant ingredient is classified as carcinogenic by SWA.</p> <p>NTP: No significant ingredient is classified as carcinogenic by NTP.</p> <p>IARC: No significant ingredient is classified as carcinogenic by IARC.</p>
Additional toxicological information:	<p>The Australian Acceptable Daily Intake (ADI) for paraquat (as cation) for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.45 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', June 2014).</p> <p>The Australian Acceptable Daily Intake (ADI) for diquat for a human is 0.002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.2 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', June 2014).</p>

Section 12: Ecological information

Eco toxicity:	Very toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.				
Paraquat Dichloride:					
Birds:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">LD₅₀ hen: 262-380mg/kg</td> <td style="width: 50%;">LD₅₀ bobwhite quail: 981mg/kg</td> </tr> <tr> <td>LD₅₀ Japanese quail: 970mg/kg</td> <td>LD₅₀ mallard duck: 4048mg/kg</td> </tr> </table>	LD ₅₀ hen: 262-380mg/kg	LD ₅₀ bobwhite quail: 981mg/kg	LD ₅₀ Japanese quail: 970mg/kg	LD ₅₀ mallard duck: 4048mg/kg
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Fish:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">LC₅₀ rainbow trout: 32mg/L</td> <td style="width: 50%;">LC₅₀ brown trout: 2.15-13mg/L</td> </tr> </table>	LC ₅₀ rainbow trout: 32mg/L	LC ₅₀ brown trout: 2.15-13mg/L		
LC ₅₀ rainbow trout: 32mg/L	LC ₅₀ brown trout: 2.15-13mg/L				
Environmental fate:	<p>Animals: In rats, following oral administration, 76-90% of the dose was excreted in the faeces, and 11-20% in urine.</p> <p>Plants: On plant surfaces, photochemical degradation occurs. Degradation products which have been isolated include 1-methyl-4-carboxypyridinium chloride and methylamine hydrochloride.</p> <p>Soil/environment: Clays and organic materials rapidly and strongly absorb paraquat, resulting in complete deactivation. Typical strong absorption capacities vary from 20-3000mg/kg soil depending on clay or organic material content. Desorption requires digestion with 12N sulphuric acid for several hours.</p>				

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. 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 rinse containers; add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. 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. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. 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.

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 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.
UN Number:	3016, BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC
Hazchem Code:	2XE
Special Provisions:	61,223,274
Limited Quantities:	ADG 7 specifies a Limited Quantity value of 5 L for this class of product.
Dangerous Goods Class:	Class 6.1: Toxic Substances
Packing Group:	III
Packing Instruction:	P001, IBC03, LP01
<p>Class 6 Toxic Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids where the Flammable Liquid is nitromethane), 5.1 (Oxidising Agents where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides where the Toxic Substances are Fire Risk Substances), 8 (Corrosive Substances where the Toxic Substances are cyanides and the Corrosives are acids), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes, 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Toxic Gases), 3 (Flammable liquids, except where the flammable liquid is nitromethane), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents except where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides except where the Toxic Substances are Fire Risk Substances), 7 (Radioactive Substances), 8 (Corrosive Substances except where the Toxic Substances are cyanides and the Corrosives are acids), 9 (Miscellaneous Dangerous Goods).</p>	

Section 15: Regulatory information

Australian Inventory of Chemical Substances:	
1910-42-5	Paraquat (present as paraquat dichloride)
85-00-7	Diquat dibromide
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 7	
Registration status: Registered	APVMA approval: 64802/0310

Section 16: Any other relevant information

Date of preparation or last revision: This Safety Data Sheet (SDS) was completed 1 January 2022 and replaces SDS dated 17 January 2017.

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)
 TWA: Exposure Standard - time weighted average
 STEL: Exposure standard - short term exposure limit.
 mg/m³: Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. The value is exact.
 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

Source of Data: 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.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Grow Choice Pty Ltd
(02) 6766 3979
24 HOURS EMERGENCY CONTACT: 1800 033 111

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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