



GROW CHOICE PTY LTD
 (INC IN NSW) ABN 36 161 264 884
 113 Fitzroy Street, Tamworth NSW 2340
 Phone 02 67663979 Fax 02 67662922
 Email admin@growchoice.com.au

KWICKNOCK 250 HERBICIDE

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

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| 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 approval number: 64802/0310 |
| Recommended use of the chemical and restrictions on due | For the control of a wide range of grasses and broadleaf weeds |
| Suppliers name, address and phone number: | 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 |
| 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 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

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| 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 |
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GHS symbol



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| Signal word | DANGER |
| General Precautionary Statements. | 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 Statements | P405: Store locked up. P410: Protect from sunlight. P403+P233: Store in a well-ventilated place. Keep container tightly closed. Refer Section 7 |
| Disposal Statements | P501: Dispose of contents and containers as specified on the registered label and in accordance with local, regional and national regulations. |

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

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

SECTION 4: FIRST AID MEASURES

General Information:

Call The Poisons Information Centre, 13 1126 from anywhere in Australia (0800 764 766 in New Zealand), if 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.

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| 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. |
| Medical Attention and Special Treatment | In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist with a copy of this SDS or chemical Label. |

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.

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: 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.

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.

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 (cont. page 4)

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| Personal precautions, protective equipment and emergency procedures | 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. Avoid eye and skin contact; |
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| Environmental precautions | Do not breath dust; Ensure adequate ventilation; Avoid contamination of waterways. Refer to Section 8 for Personal Protection Equipment (PPE). |
| Methods and materials for containment and cleaning up | 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

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| Precautions for safe handling | 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. |
| Conditions for safe storage, including any incompatibilities: | 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

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.

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:

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| 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 |

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

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| Physical Description & colour: | Clear dark blue liquid |
| Odour: | Unpleasant odour |
| Boiling Point: | Approximately 100°C at 100kPa. |
| Freezing/Melting Point: | No specific data. Liquid at normal temperatures. |
| Volatiles: | Water component. |
| Vapour Pressure: | 2.37 kPa at 20°C (water vapour pressure). |
| Vapour Density: | As for water. |
| Specific Gravity: | 1.16 at 20°C |
| Water Solubility: | Soluble. |
| pH: | No data. |
| Volatility: | No data. |
| Odour Threshold: | No data. |
| Evaporation Rate: | As for water. |
| Coefficient Oil/water distribution: | No data |
| Auto ignition temp: | Does not burn. |

SECTION 10: STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Excessive heat and direct sunlight.

Incompatible Materials: No information available

Hazardous Decomposition Products: Oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds, bromine compounds, smoke and water.

SECTION 11: TOXICOLOGICAL INFORMATION (cont. page 6)

Toxicity: Paraquat Dichloride: LD₅₀ Oral, Rat 157mg/kg LD₅₀ Oral, Mouse = 104mg/kg

LD₅₀ Oral, Guinea Pig = 22-42mg/kg LD₅₀ Oral, Dog = 25-50mg/kg

LD₅₀ Dermal, Rat = 236-500mg/kg

Short term exposure: Available data shows that this product is very toxic and an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident, but they should disappear after exposure has ceased.

Long Term exposure: No data available.

Skin Contact:

Short term exposure: Available data shows that this product is toxic and a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Long Term exposure: No data available.

Eye Contact:

Short term exposure: This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.

Long Term exposure: No data available.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product is toxic. This product may be irritating to mucous membranes and may cause transient discomfort.

Long Term exposure: No data available.

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.

Additional toxicological information:

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).

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).

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Paraquat Dichloride:

Birds: LD₅₀ hen: 262-380mg/kg

LD₅₀ bobwhite quail: 981mg/kg

LD₅₀ Japanese quail: 970mg/kg

LD₅₀ mallard duck: 4048mg/kg

Fish: LC₅₀ rainbow trout: 32mg/L

LC₅₀ brown trout: 2.15-13mg/L

Environmental fate:

Animals: In rats, following oral administration, 76-90% of the dose was excreted in the faeces, and 11-20% in urine.

Plants: On plant surfaces, photochemical degradation occurs. Degradation products which have been isolated include 1-methyl-4-carboxypyridinium chloride and methylamine hydrochloride.

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.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of product

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®).

Disposal of Container

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

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| 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

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)

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 Drugs and Poisons (SUSMP) - Poison Schedule: Poisons Schedule: **S7**

SECTION 16: ANY OTHER RELEVANT INFORMATION

Date of Review This Safety Data Sheet (SDS) was completed 17 January

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.