

AGPRO DIRECT SAFETY DATA SHEET

DIRECT

AGPRO KUATOUT

Issue Date: 10/04/2017

1. SUBSTANCE IDENTIFICATION:

AGPRO Kuantout

SUPPLIER NAME: AGPRO NZ Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: 10 Polaris Place, East Tamaki, Auckland.
SUPPLIER PHONE: 09 273 3456 SUPPLIER FAX: 09 273 3457
EMERGENCY PHONE: 0800 POISON
USE: Used to control weeds in market gardens, nurseries, orchards and vineyards.

2. HAZARDS IDENTIFICATION:

Hazard Classes:

- 6.1A - May be fatal if swallowed, inhaled or absorbed through the skin.
- 6.3A - May cause skin irritation.
- 6.4A - May cause eye irritation.
- 6.5B - May cause sensitization from prolonged skin contact.
- 6.9A - May cause eye and organ damage from repeated ingestion at high doses.
- 9.1A - Very toxic to aquatic organisms.
- 9.3A - Very toxic to terrestrial vertebrates.
- 9.4C - Harmful to terrestrial invertebrates.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NUMBER	CONCENTRATION
Paraquat dichloride	1910-42-5	11.5%
Diquat dibromide	85-00-7	9.8%
Other ingredients, surfactants, dye etc	Proprietary	Remainder

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention.
SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill-effects persist, consult a doctor.
INGESTION: Rapid treatment is essential. Rush to hospital after alerting by phone. If available give an absorbant such as activated charcoal (25-100g in 300-800ml water) or bentonite (7.5% suspension) or fuller earth (15% suspension) at a dose of 100-150g. Do not induce vomiting unless directed by a medical professional. See medical advice immediately.
NOTES TO DOCTOR: Rapid treatment is essential. Refer to an authoritative text on treatment. E.g. Recognition and Management of Pesticide Poisonings, US EPA, Chapter 16 Paraquat and Diquat. <http://www.epa.gov/pesticides/safety/healthcare/handbook/handbook.pdf>.

NATIONAL POISON CENTRE: 0800 POISON (0800 764 764) 24 hours.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: None
FLAMMABLE LIMITS: None
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS:
SPECIAL FIRE FIGHTING METHODS: Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

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6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately. Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed, away from foodstuffs, seeds, fertilisers and pesticides. Keep out of reach of children. Wash protective clothing daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.
EYE PROTECTION: Where eye contact is likely, use chemical splash goggles.
RESPIRATORY PROTECTION: When work conditions are such that aerosols or mists are generated or may be generated, use a suitable approved respirator.
PROTECTIVE CLOTHING: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.
VENTILATION: General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS: Do not eat, drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Brown green coloured liquid
BOILING POINT: 100°C
DENSITY: 1.16g/mL @ 25°C
DECOMPOSITION TEMP: Not Available.
FLASHPOINT: Not Applicable.
EXPLOSION PROPERTIES: Not Applicable.
SOLUBILITY: Soluble

pH:	5 - 6.5
SETTING POINT:	Not Available.
AUTOIGNITION TEMP:	Not Applicable.
VAPOUR DENSITY:	Not Applicable.
VAPOUR PRESSURE:	Not Volatile.

10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions.
MATERIALS TO AVOID: Avoid mixing with strong acid, alkalis and oxidising agents such as chlorine compounds, ammonium nitrate. Can cause corrosion when in contact with steel or aluminium.
HAZARDOUS DECOMPOSITION PRODUCTS: Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL ACTIVE INGREDIENT: Paraquat LD50 (rat): 283 mg/kg. Diquat LD50 (rat) 1389mg/kg
ACUTE DERMAL ACTIVE INGREDIENT: Paraquat LD50 (rat): >2000 mg/kg. Diquat LD50 (rat) >2000mg/kg
ACUTE INHALATION ACTIVE INGREDIENT: Paraquat LC 50 (4 hr) (Rat): 1ug/l
OTHER TOXICITY INFORMATION: Warning - May cause skin irritation, avoid skin contact.
Warning - May cause eye irritation, avoid contact with eyes.

Effects

Swallowed: Burning pain in mouth, throat, chest and upper abdomen. Inflammation or ulceration of the mouth, nose, throat and oesophagus. Vomiting, diarrhoea, giddiness, headache, fever.

Eye: Irritation. Splashes of concentrate may cause severe conjunctivitis and corneal damage.

Skin: Irritation. Prolonged contact can cause redness, blistering, abrasion, ulceration, cracking of the skin and ridging of fingernails.

Can be absorbed through the skin, especially through cuts, blisters, ulcers etc.

Inhaled: Cough, sore throat, laboured breathing, headache, nosebleeds.

Chronic: Paraquat has life threatening effects on the lungs, gastrointestinal tract, liver, heart and other organs.

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12. ECOLOGICAL INFORMATION: Related to the active ingredient.

AQUATIC TOXICITY: LC50 (96 hr) (Rainbow trout) 55mg/l, LC50 (48hr) (Daphnia Magna) 6.1mg/L
SOIL TOXICITY: Biodegradable DT50 (Soil) < 1 week (unadsorbed to soil particles)
TERRESTRIAL VERTEBRATES - BIRDS: Acute Oral LD50 (Bobtail quail) 175mg/kg
TERRESTRIAL INVERTEBRATES - BEES: Acute Oral LD50 (Bee) 36ug/bee (Moderately toxic)

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add residue to spray tank and dispose of according to the label. Otherwise bury in a landfill. Avoid contamination of any water supply with chemical or empty container. Do not use the container for any other purpose.

14. TRANSPORT INFORMATION:

PROPER SHIPPING NAME: BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC (PARAQUAT and Diquat)
DG CLASS: 6
UN NUMBER: 3016
HAZCHEM: 2X
PACK GROUP: III

15. REGULATORY INFORMATION:

APPROVED HANDLER: This product must be under the control of an approved handler during use.
TRACKING: Must be tracked at all stages.
RECORD KEEPING: Records must be kept for 3 years.
See the ERMA Website for more details: www.ermanz.govt.nz
ERMA Approval Code: HSR000447
ACVM Pesticide Number: P009305.

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.