

Infosafe No™ 3NU9G	Issue Date : February 2024	ISSUED by NUFARMNZ
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 Product Name **DUPLOSAN® KV**

Section 1 - Identification

Product Identifier	DUPLOSAN® KV
Product Code	00196
Product Type	Selective herbicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	Selective cereal herbicide, particularly suitable for use in mixtures to control difficult weeds.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Acute oral toxicity: Category 4 Serious eye damage Category 1 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed. H318 Causes serious eye damage. H373 May cause damage to organs H421 Very toxic to the soil environment. H433 Harmful to terrestrial vertebrates.
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Corrosion, Health hazard, Environment



Precautionary Statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. 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/doctor. P314 Get medical advice/attention if you feel unwell. P330 Rinse mouth. P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid
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Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Mecoprop-P (present as potassium salt)	66423-05-0	600g/L

Section 4 - First Aid Measures

Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically. (decontamination, vital functions), no known specific antidote.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	If involved in a fire, it may emit carbon monoxide, nitrogen oxides and hydrogen chloride.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain liquid spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and detergent and absorb with inert material. Dispose of waste safely in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

Section 7 - Handling and Storage

Precautions for Safe Handling	The person mixing or applying DUPLOSAN KV must be a 'Qualified Contractor' or 'Qualified Loader'. For more information refer to the Hazardous Substances Property Controls Notice 2017. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist.
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Conditions for safe storage, including any incompatibilities	<p>CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in the NZS 8409 Management of Agrichemicals must be kept. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. Do not allow drift to occur outside the target area. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.</p>
Other Information	<p>Stores containing 100L of Duplosan KV are subject to signage, 1000L require secondary containment and more than 1000L require emergency response plans. Keep out of reach of children.</p> <p>Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure standard has been established for this product. No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Brown liquid
Odour	slight amine odour
Decomposition Temperature	Information is not available.
Melting Point	(based on active matter) Mecoprop-P active ingredient = 94.6-96.2°C; (tech., 84 - 91°C)
Freezing Point	Solidifies ~ -17°C.
Solubility in Water	Soluble
Specific Gravity	1.10 -1.16g/mL @ 20°C
pH	8-10
Vapour Pressure	Mecoprop-P active ingredient = 0.23mPa (20°C)
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Mecoprop-P active ingredient Kow logP = 1.43 (pH 5), 0.02 (pH 7), -0.18 (pH 9) (all 20°C).
Flash Point	Not flammable
Flammability	Non flammable.

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Auto-ignition Temperature	Does not ignite
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Explosion Properties	Not explosive
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	Mecoprop-P active ingredient = S.g./density c. 1.31 (20°C)
Other Information	(SL) Soluble concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage. Mecoprop-P is stable to heat, light and stable in the range pH3 to pH9.
Incompatible Materials	acids and alkalis.
Hazardous Polymerization	Hazardous polymerisation will not occur.

Section 11 - Toxicological Information

Toxicology Information	Harmful if inhaled, swallowed or absorbed through the skin.
Acute Toxicity - Oral	LD50 (rat) = 431-1050mg/kg (mecoprop-P)
Acute Toxicity - Inhalation	LC50 (rat) = >5.6mg/L/4h (mecoprop-P)
Acute Toxicity - Dermal	Acute percutaneous LD50 (rat) = >4000mg/kg (mecoprop-P)
Skin Corrosion/Irritation	Non-irritation (rabbit)
Serious Eye Damage/Irritation	Severe irritant Irritant (rabbit)
Skin Sensitisation	Not a skin sensitizer.
Germ Cell Mutagenicity	Mecoprop-P active ingredient is non-mutagenic.
Carcinogenicity	For the active ingredient {UD01}, the following information applies. Mecoprop-P active ingredient is non-carcinogenic and non-oncogenic.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause damage to organs through prolonged or repeated oral exposure.
Aspiration Hazard	Information is not available.
Subchronic/Chronic Toxicity	Mecoprop-P active ingredient = NOEL (2y) for rats 1.1mg/kg b.w.daily.

Section 12 - Ecological Information

Ecological Information	Ecotoxic data below is for mecoprop-P technical
Ecotoxicity	Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

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Persistence and Degradability	In soil mecoprop-P is degraded predominantly by micro-organisms to 4-chloro-2-methylphenol, followed by ring hydroxylation at the 6-position and ring opening. Duration of residual activity in soil is c. 2 months.
Mobility	Information is not available.
Acute Toxicity - Fish	LC50 (96h) Trout = 150-220mg/L
Acute Toxicity - Daphnia	EC50 (48h) Daphnia = >100mg/L
Acute Toxicity - Algae	EC50 (72h) Algae (<i>Pseudokirchneriella subcapitata</i>) = 270mg/L
Acute Toxicity - Other Organisms	LC50 (14d) Worms (<i>Eisenia foetida</i>) 494mg/kg soil Oral LD50 quail 497mg/kg. Dietary LC50 (5d) for bobwhite quail >4630mg/kg diet Not toxic to honey bees; LD50 (contact and oral) >100µg/bee No effect on <i>Poecilus cupreus</i> or <i>Aleochara bilineata</i> .

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

Section 14 - Transport Information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
Storage and Transport	Not classified as Dangerous Goods for transport in New Zealand.
Other Information	Do not carry this product on a passenger service vehicle.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P3898 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSN0 Act 1996, Approval Code HSR000372 See www.epa.govt.nz for approval controls.
Packaging and Labelling	READ SAFETY DIRECTIONS BEFORE OPENING OR USING KEEP OUT OF REACH OF CHILDREN

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	September 2022.
Contact Person/Point	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions Highlighted	Various changes and updates made to the document to comply with GHS7. ...End Of MSDS...

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