

Infosafe No™ 3NU9G	Issue Date : April 2017	ISSUED by NUFARMNZ
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 Product Name **DUPLOSAN® KV**

1. Identification

GHS Product Identifier	DUPLOSAN® KV
Product Code	00196
Product Type	Selective herbicide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.nufarm.com
Recommended use of the chemical and restrictions on use	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.

2. Hazard Identification

Other Information	6.1D acute toxicant, 6.9B target organ toxicant, 8.3A eye corrosive, 9.2A soil toxicant, 9.3C terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause organ damage from repeated oral exposure at high doses. CORROSIVE Danger - this product is corrosive and may cause eye damage. ECOTOXIC Very toxic to the soil environment. Selective herbicide - very toxic to some plant species. Harmful to terrestrial vertebrates.
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3. Composition/information on ingredients

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

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 contact	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.

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5. Fire-fighting measures

Suitable extinguishing media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion If involved in a fire, it may emit carbon monoxide, nitrogen oxides and hydrogen chloride.

Products

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.

Other Information Location Certificate: Not applicable
Hazardous Atmosphere Zone: Not applicable
Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & 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.

7. Handling and storage

Precautions for Safe Handling Avoid skin and eye contact and inhalation of spray mist.
APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.
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.

Conditions for safe storage, including any incompatibilities 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.

Other Information 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.
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.

8. Exposure controls/personal protection

Occupational exposure limit values 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.

9. Physical and chemical properties

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 Product Name **DUPLOSAN® KV**

Form	Liquid
Appearance	Brown liquid
Odour	slight amine odour
Melting Point	Not applicable. Solidifies ~ -17°C. (Mecoprop-P technical = 84 - 91°C)
Solubility in Water	Soluble
Specific Gravity	1.10 -1.16g/mL @ 20°C
pH	8-10
Vapour Pressure	Not determined. (Mecoprop-P = 0.4 mPa @ 20°C)
Flash Point	Not flammable
Auto-Ignition Temperature	Does not ignite
Explosion Properties	Not explosive
Other Information	(SL) Soluble concentrate

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.

11. Toxicological Information

Toxicology Information	Harmful if inhaled, swallowed or absorbed through the skin.
Acute Toxicity - Oral	LD50 (rat) = 1050mg/kg (mecoprop-P)
Acute Toxicity - Dermal	percutaneous LD50 (rat) = >4000mg/kg (mecoprop-P)
Acute Toxicity - Inhalation	LC50 (rat) = >5.6mg/L/4h (mecoprop-P)
Skin Sensitisation	Not a skin sensitizer.
Carcinogenicity	Non-carcinogenic and non-oncogenic.
Serious eye damage/irritation	Irritant (rabbit)
Skin corrosion/irritation	Non-irritation (rabbit)
Subchronic/Chronic Toxicity	NOEL (2y) for rats = 1.1mg/kg b.w.daily.

12. Ecological information

Ecological Information	Ecotoxic data below is for mecoprop-P technical
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.
Acute Toxicity - Fish	LC50 (96h) Trout = 150-220mg/L
Acute Toxicity - Daphnia	EC50 (48h) Daphnia = >100mg/L
Acute Toxicity - Algae	EC50 (72h) Algae (Pseudokirchneriella subcapitata) = 270mg/L
Acute Toxicity - Other Organisms	LC50 (14d) Worms (Eisenia foetida) 494mg/kg soil Oral LD50 dietary bobwhite quail = >5600mg/kg diet (dimethylammonium salt) EC50 (48h) Honey bee = >25mg/bee (dimethylammonium salt). Not toxic to honey bees



Safety Data Sheet

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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.

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.

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 HSNO Act 1996, Approval Code HSR000372
See www.epa.govt.nz for approval controls.

Packaging & Labelling HARMFUL * CORROSIVE * ECOTOXIC - keep out of reach of children

Hazard Rating Systems NFPA/HMIS: 3-0-1

16. Other Information

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 The SDS was reviewed. Various changes were made to the information.

Other Information Supersedes SDS issued December 2006
...End Of MSDS...

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