

Infosafe No™ 3NU9I Issue Date : September 2024 ISSUED by NUFARMNZ

Product Name **DUPLOSAN® SUPER**

Section 1 - Identification

Product Identifier	DUPLOSAN® SUPER
Product Code	00192
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	Systemic post-emergence herbicide for use in wheat, barley, oats, grass crops and grass lawns against a wide range of broadleaf 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 Skin sensitization: Category 1 Specific target organ toxicity - repeated exposure: Category 1 Hazardous to the terrestrial environment: Hazardous to soil organisms Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates Hazardous to the terrestrial environment: Designed for biocidal action
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed H332 Harmful if inhaled H317 May cause an allergic skin reaction H318 Causes serious eye damage H372 Causes damage to the organs through prolonged or repeated exposure H402 Harmful to aquatic life H421 very toxic to the soil environment H432 toxic 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 label before use
Pictogram (s)	Exclamation mark, Corrosion, Health hazard, Environment



Precautionary Statement – Prevention

P264 Wash face and hands thoroughly after handling.
P273 Avoid release to the environment.
P270 Do not eat, drink or smoke when using this product.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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Precautionary Statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
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.
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		
Ingredients	Name	CAS	Proportion
	Dichlorprop-P (as the dimethylamine salt)	104786-87-0	310 g/L
	MCPA (present as the dimethylamine salt)	2039-46-5	160 g/L
	Mecoprop-P (as the dimethylamine salt)	66423-09-4	130 g/L

Section 4 - First Aid Measures

First-aid Measures For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.

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 Extinguish fire with the following: Water, 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.

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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. Clean contaminated floors and objects thoroughly with water and detergent, observing environmental regulations.
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 SUPER must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. 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. This product must not be applied onto or into water. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use, as described in NZS 8409 Management of Agrichemicals, must be kept whenever DUPLOSAN SUPER is used.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, seeds and fertilizers. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1,000L of DUPLOSAN SUPER require bunding and 100L are subject to signage. Stores containing more than 1,000L require emergency response plans.
Other Information	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.

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, washable hat, 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

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Product Name **DUPLOSAN® SUPER**

Form	Liquid
Appearance	Brown liquid.
Odour	Slight amine odour.
Decomposition Temperature	Information is not available.
Melting Point	Not applicable. Crystallization temp = ~-20°C
Solubility in Water	Soluble
Specific Gravity	1.17g/mL @ 20°C
pH	8-10
Vapour Pressure	0.062mPa (20°C) for dichlorprop-P. 2.3 x 10 ⁻² mPa (20°C) for MCPA. 0.23mPa (20°C) for mecoprop-P.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = -0.25 (pH7, 25°C) for dichlorprop-P, -0.71 (pH7, 25°C) for MCPA and 0.02 (pH7, 20°C) for mecoprop-P.
Flash Point	Not flammable.
Flammability	Information is not available.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(SL) Soluble concentrate

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Acids and alkalis.
Hazardous Polymerization	Not known to occur.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rats)= 567mg/kg for dichlorprop-P, 962 - 1470mg/kg for MCPA, and 431 - 1050mg/kg for mecoprop-P.
Acute Toxicity - Inhalation	LC50 (rats, 4h) >7.4mg/kg for dichlorprop-P, >6.36mg/L for MCPA, >5.6mg/L for mecoprop-P.
Acute Toxicity - Dermal	LD50 (rats) >4,000mg/kg for dichlorprop-P, MCPA and mecoprop-P.
Skin Corrosion/Irritation	Not irritating.
Serious Eye Damage/Irritation	Causes serious eye damage.
Skin Sensitisation	May cause an allergic skin reaction.

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Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Information is not available.
Reproductive Toxicity	Information is not available.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	Causes organ damage through prolonged or repeated exposure.
Aspiration Hazard	Information is not available.
Chronic Effects	May cause damage to the liver, kidney, blood and hematopoietic system.

Section 12 - Ecological Information

Persistence and Degradability	Soil DT50 (aerobic) 3-13 days for mecoprop-P, <7 days after initial lag phase for MCPA.
Mobility	Information is not available.
Environmental Fate	Mecoprop-P in soil 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. MCPA in soil is degraded to 4-chloro-2-methylphenol, followed by ring hydroxylation and ring opening. Duration of residual activity in soil is c. 3-4 months, following an application rate of 3kg/ha. No environmental fate data available for dichlorprop-P.
Bioaccumulative Potential	This product is not bioaccumulative.
Acute Toxicity - Fish	LC50 (96h) trout = 100-220mg/L for dichlorprop-P. LC50 (96h) rainbow trout = 50-560mg/L for MCPA salt solution. LC50 (96h) trout = 150-220mg/L for mecoprop-P.
Acute Toxicity - Daphnia	EC50 (48h) = >100mg/L for dichlorprop-P. EC50 (48h) = >190mg/L for MCPA. EC50 (48h) = >100mg/L for mecoprop-P.
Acute Toxicity - Algae	EC50 (72h) Pseudokirchneriella subcapitata = 676mg/L for dichlorprop-P. EC50 Selenastrum capricornutum >392mg/L for MCPA. EC50 (72h) Anabaena flos-aquae = 23.9mg/L for mecoprop-P.
Acute Toxicity - Other Organisms	Worm: LD50(14d) Eisenia foetida 494mg/kg soil (mecoprop-P) 325mg/kg soil (MCPA) 994mg/kg soil (dichlorprop-P) Birds: LC50 bobwhite quail c. 500mg/kg (mecoprop-P) 377mg/kg (MCPA) 250-500mg/kg (dichlorprop-P) Bees: Not toxic to honeybees LD50 (48h) = >25mg/bee (mecoprop-P DMA salt) LD50 = 0.104mg/bee (MCPA) LD40 (48h) = >25mg/bee (dichlorprop-P DMA salt)

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. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional

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segregation. Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P4594 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000417 See www.epa.govt.nz for approval controls.
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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.

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