



Infosafe No™ 3NV3V	Issue Date : August 2025	ISSUED by NUFARMNZ
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Product Name **DIGGER EW**

Section 1 - Identification

Product Identifier	DIGGER EW
Product Code	02680
Product Type	Fungicide
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	A triazole (DMI) fungicide for the control of powdery mildew on grapes.
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	Flammable liquids: Category 4 Aspiration hazard: Category 1 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the aquatic environment chronic Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H227 Combustible liquid H304 May be fatal if swallowed and enters airways H373 May cause damage to organs through prolonged or repeated exposure H411 Toxic to aquatic life with long lasting effects
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)	Health hazard, Environment <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">   </div>
Precautionary Statement – Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P314 Get medical advice/attention if you feel unwell. P331 Do NOT induce vomiting. P370+P378 In case of fire: Use dry chemical, carbon dioxide, water spray fog or foam to extinguish. P391 Collect spillage.
Precautionary Statement – Storage	P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

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Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Difenoconazole	119446-68-3	125 g/L
	Hydrocarbon solvent	64792-94-5	180 g/L
	Other Ingredients		Balance

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. Do not scrub the skin.
Eye	Flush eyes with plenty of water for 15 minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do so. Seek medical assistance.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Alcohol resistant foam, water spray or fog Dry chemical powder Carbon dioxide
Unsuitable Extinguishing Media	Do not use a high volume water jet or a solid water stream to extinguish, as this will spread the fire.
Hazards from Combustion Products	If involved in a fire, may emit toxic fumes, smoke and hazardous gases including hydrogen chloride, carbon monoxide and dioxide, oxides of carbon, nitrogen and incomplete combustion products.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Keep containers cool with water spray. Do not allow washings to reach sewage or effluent systems.
Hazchem Code	3Z
Decomposition Temperature	Information is not available.
Other Information	Location certificate: Not applicable. Hazardous Atmosphere Zone: Not applicable. Number of fire extinguishers: 2 for 500L or more.

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain 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 absorb with further inert material. Dispose of waste safely in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.

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Environmental Precautions Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling 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. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Is not required.

Conditions for safe storage, including any incompatibilities Do not store near heat or flame. Store in original container tightly closed, in a well-ventilated area, as cool as possible, away from sources of ignition and foodstuffs. Do not store for prolonged periods in direct sunlight. Store in accordance with NZS 8409 Management of Agrichemicals. Do not store with HSNO Class 1, 2, 3.2, 4 or 5 substances. Stores containing 1000L of Digger EW require secondary containment and are subject to signage, and more than 1000L require emergency response plans. Stores containing 500L or more of Digger EW must have at least 2 fire extinguishers.

Other Information 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 limits (WES, TEL or EEL's) have been specifically assigned for this product. However product contains solvent components with the following WES TWA exposure limits:
Heavy aromatic hydrocarbon TWA: 15ppm

Appropriate Engineering Controls Handle in well ventilated areas, particularly if handling in confined spaces. Generally natural ventilation is adequate. Avoid skin and eye contact and inhalation of spray mist.

Personal Protective Equipment When mixing or applying wear face and eye protection, impervious gloves, boots and overalls.

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. Wash splashes of concentrate from skin immediately.

Section 9 - Physical and Chemical Properties

Form Liquid

Appearance White to off-white.

Odour Characteristic solvent odour.

Decomposition Temperature Information is not available.

Melting Point 82.0-83.0°C for active ingredient difenoconazole.

Boiling Point 100.8°C/3.7mPa for active ingredient difenoconazole.

Solubility in Water Miscible, forms an emulsion in water

Specific Gravity 1.026g/mL

pH 4.0-7.0 (1% dilution)

Vapour Pressure 3.3 x 10⁻⁵mPa (25°C) for active ingredient difenoconazole.

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Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = 4.4 (25°C) for active ingredient difenoconazole.
Flash Point	81°C (closed cup)
Flammability	Flammable.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(EW) Emulsion, oil in water

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Excessive heat and open flames which might induce thermal decomposition.
Incompatible Materials	Strong oxidizing agents. Strong acids. Reducing agents.
Hazardous Decomposition Products	On thermal decomposition, may emit toxic fumes, smoke and hazardous gases including hydrogen chloride, carbon monoxide and dioxide, oxides of carbon, nitrogen and incomplete combustion products.
Hazardous Polymerization	Not known to occur.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rats) 1453mg/kg for active ingredient difenoconazole.
Acute Toxicity - Inhalation	LC50 (rats, 4hr) >3285mg/m ³ air for active ingredient difenoconazole.
Acute Toxicity - Dermal	LD50 (rabbits) >2010mg/kg for active ingredient difenoconazole.
Skin Corrosion/Irritation	Non-irritant to skin for active ingredient difenoconazole.
Serious Eye Damage/Irritation	Mild irritant to eyes (rabbits) for active ingredient difenoconazole.
Skin Sensitisation	Non-sensitising to skin (guinea pigs) for active ingredient difenoconazole.
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	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	Aspiration hazardous. May be fatal if swallowed and enters airways.
Other Information	The Australian Acceptable Daily Intake (ADI) for difenoconazole for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based

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on the NOEL of 1 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: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

Section 12 - Ecological Information

Persistence and Degradability	Difenoconazole is considered persistent in the aquatic environment (DT50 (whole system) >2 months and the soil environment (upper 80% DT50 192.8 days) In animals after oral administration, difenoconazole was rapidly eliminated practically to entirety with urine and faeces. Residue in tissues was not significant and there was no evidence for accumulation.
Mobility	Difenoconazole is practically immobile in soil.
Environmental Fate	Difenoconazole has moderate potential to bioaccumulate with a BCF of 330. Difenoconazole shows low potential for leaching due to strong adsorption to soil particles therefore is unlikely to leach below top-soil layer.
Bioaccumulative Potential	Not bioaccumulative.
Acute Toxicity - Fish	LC50 (96h) rainbow trout is 1.1mg/L for active ingredient difenoconazole.
Acute Toxicity - Daphnia	EC50 (48h) is 0.77mg/L for active ingredient difenoconazole.
Acute Toxicity - Algae	EC50 (72h) Scenedesmus subspicatus is 0.03mg/L for active ingredient difenoconazole.
Acute Toxicity - Other Organisms	Birds: LD50(9-11d) mallard ducks >2150mg/kg for active ingredient difenoconazole. Bees: non-toxic to honey bees; LD50(oral) >187µg/bee, (contact) >100µg/bee for active ingredient difenoconazole. Worms: LC50 earthworm >610mg/kg dry soil for active ingredient difenoconazole.

Section 13 - Disposal Considerations

Product Disposal	Dispose of product only by using according to the label or at an approved treatment facility. Do not burn.
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.
UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (difenoconazole)
Hazard Class	9
Hazchem Code	3Z
Packaging Method	-
Packing Group	III
Storage and Transport	This product is classified as a hazardous substance and dangerous goods for transport in New Zealand according to LSTA New Zealand.
EPG Number	-
IERG Number	35
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
EMS	F-A, S-A
Other Information	Do not carry more than 10L of Digger EW on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

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Section 15 - Regulatory Information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P9644 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR101369 See www.epa.govt.nz for approval controls.
Packaging and Labelling	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING KEEP LOCKED UP

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS	October 2024.
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	Product code 02680 added. ...End Of MSDS...

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