

Infosafe No™ 3NUG6	Issue Date : February 2024	ISSUED by NUFARMNZ
Product Name DEW 600		

Section 1 - Identification

Product Identifier	DEW 600
Product Code	03418
Product Type	Organophosphate Insecticide
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	An insecticide for the control of insect pests on specified crops.
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 Acute dermal toxicity: Category 4 Acute inhalation toxicity: Category 4 Reproductive toxicity: Category 2 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: Hazardous to terrestrial invertebrates Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H302 Harmful if swallowed H332 Harmful if inhaled H312 Harmful in contact with skin H361 Suspected of damaging fertility or the unborn child H372 Causes damage to the nervous system through prolonged or repeated exposure H400/H410 Very toxic to aquatic life with long lasting effects H422 Toxic to the soil environment H431 Very toxic to terrestrial vertebrates H441 Very toxic to terrestrial invertebrates
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)	Exclamation mark, Health hazard, Environment



Precautionary Statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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Precautionary Statement – Response	<p>P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280(d) Wear protective gloves. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician P321 Specific treatment. This statement applied if immediate administration of antidote is required. Atropine is the specific antidote P330 Rinse mouth P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTRE or doctor/physician if you feel unwell P322 Wash effected areas with soap and water P361 Remove immediately all contaminated clothing P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing P311 Call a POISON CENTER or physician P308+P313 IF exposed or concerned: Get medical advice/attention P314 Get medical advice/attention if you feel unwell P391 Collect spillage</p>
Precautionary Statement – Storage	<p>P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.</p>
Precautionary Statement – Disposal	<p>P501(g) Dispose of contents/container to an approved waste disposal plant.</p>

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Diazinon	333-41-5	600 g/L
	Ingredients determined to be non-hazardous	-	To volume

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. Seek medical assistance. Remove contact lenses, if present and easy to do.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	<p>Organophosphates: Initial Treatment: Atropine is the specific antidote. Large amounts are required in organophosphate poisoning. An initial trial dose of atropine 2mg intravenously should be given and repeated every 15 minutes until an atropine effect is noted (dilated pupils, dry mouth, flushing of the skin). Reduce to a schedule that maintains full atropinisation for at least 24 hours. The dose and frequency of atropine will vary from case to case. Medical: Take blood samples for cholinesterase levels before starting treatment. Stomach washout if organophosphate has been ingested. Pralidoxime enhances the reactivation of acetyl cholinesterase. It is most effective if</p>

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given early, but can still be started up to 48 hours after poisoning. Pralidoxime is given at a dose of 1-2mg by slow I.V. infusion at a maximum rate of 0.5gm/min. It is used as an adjunct to, not a replacement for atropine. Respiratory Difficulty - Carefully monitor for 24 hours. Convulsions - Control with Diazepam (Valium) 5-10mg by slow I.V. or I.M. repeat as necessary.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media	Water in a jet.
Hazards from Combustion Products	Hazardous thermal decomposition products may include but not limited to: various aliphatic organophosphates, substituted pyrimidine and hydrogen cyanide. S-TEPP and diazoxon may form when diazinon is reacted with trace amounts of water. Oxides of carbon, nitrogen, sulphur and phosphorus may also be formed. Sulphur dioxide is an irritant and may induce asthma. Nitrogen oxides are irritants to the lungs - may cause pulmonary oedema. Carbon dioxide causes asphyxia by displacing oxygen.
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.
Hazchem Code	2Z
Decomposition Temperature	Diazinon decomposes above 120°C.
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 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. If spill is on the ground, the affected area should be removed to a depth of 2-3cm. Collect in an appropriate sealable container for disposal in an approved landfill. Decontaminate spill surfaces and equipment with 10% sodium hydroxide.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent product or washings from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling	Do not handle until all safety precautions have been read and understood. The person mixing or applying DEW 600 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. 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. Avoid contamination of any water supply with product or empty container. Keep ducks and hens off treated areas for 7 days after application.
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Conditions for safe storage, including any incompatibilities	<p>Keep out of reach of children.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.</p> <p>Stores containing 100L of DEW 600 require secondary containment and are subject to signage, and more than 100L require emergency response plans.</p>
Other Information	<p>Aggregate Storage Volume Thresholds:</p> <p>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. WES TWA for diazinon = 0.1 mg/m ³ (skin)
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	Avoid skin and eye contact and inhalation of spray mist. When mixing and applying wear full protective clothing such as a PVC spray suit or leggings, elbow length PVC gloves, chemical resistant boots with socks, eye protection, water proof headgear and a NIOSH approved respirator with combination filter for vapour/particles.
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.
Other Information	Persons regularly exposed in manufacturing and handling of this product should have a pre-exposure and periodic red blood cell cholinesterase level check.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	A white emulsion
Odour	Not determined
Decomposition Temperature	Diazinon decomposes above 120°C.
Boiling Point	Not determined (diazinon = 83-84°C @ 0.0002mm Hg)
Solubility in Water	Miscible Emulsifies.
Specific Gravity	1.07
pH	6.5 - 7.5 (1%w/v)
Vapour Pressure	Not determined (diazinon = 1.2x10 ⁻¹ Pa (25°C) (OECD 104))
Vapour Density (Air=1)	Data not available
Odour Threshold	Information is not available.
Viscosity	600 - 1200 cps
Volatile Component	Not determined
Partition Coefficient: n-octanol/water	Kow Log P is 3.30 (OECD 107) for Diazinon
Flash Point	Not flammable
Flammability	Information is not available.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.

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Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Relative Density	Diazinon active ingredient = S.g./density 1.11 (20°C)
Melting/Freezing Point	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. Diazinon technical is stable at ambient temperatures and pressures but susceptible to oxidation above 100°C. Stable in neutral media, but slowly hydrolysed in alkaline media, and more rapidly in acidic media. Compatible with metal drums coated with epoxy resin and aluminium or co extruded polyethylene containers.
Conditions to Avoid	Avoid oxidising agents. Do not mix with copper compounds, Bordeaux mixture or lime sulphur. Avoid open flames, welding arcs or other high temperature sources which might induce thermal decomposition. Store away from sunlight or heat sources.
Hazardous Polymerization	Hazardous polymerisation is not possible.

Section 11 - Toxicological Information

Toxicology Information	Diazinon is a cholinesterase inhibitor. Warning symptoms include weakness, headache, tightness of chest, blurred vision, non-reactive pinpoint pupils, nausea, salivation, sweating, vomiting, diarrhoea and abdominal cramps. May aggravate pre-existing medical conditions, such as asthma and inflammatory or fibrotic lung disease.
Acute Toxicity - Oral	LD50 (rat): 300mg/kg for diazinon
Acute Toxicity - Inhalation	LC50 (rat): >1,600mg/m ³ /4h for diazinon
Acute Toxicity - Dermal	LD50 (rat): 876mg/kg for diazinon
Ingestion	Moderately toxic by oral exposure. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.
Inhalation	Harmful by inhalation. May cause headache, nausea, dizziness and narcosis.
Skin	Irritant. Harmful if absorbed through the skin.
Skin Corrosion/Irritation	Irritant (rabbit) slight irritant (diazinon) Harmful if absorbed through the skin.
Serious Eye Damage/Irritation	(rabbit) slight irritant (diazinon)
Respiratory Irritation	No data available.
Skin Sensitisation	Information is not available.
Germ Cell Mutagenicity	Information is not available.
Carcinogenicity	Diazinon is non-carcinogenic (in rats).
Reproductive Toxicity	Suspected reproductive/developmental toxicant (diazinon)
STOT - Single Exposure	Information is not available.

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STOT - Repeated Exposure	Causes damage to the nervous system through prolonged or repeated exposure.
Aspiration Hazard	Information is not available.
Subchronic/Chronic Toxicity	Target organ toxicant: Nervous system (diazinon)
Other Information	The Australian Acceptable Daily Intake (ADI) for diazinon for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.02 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 4/2023).

Section 12 - Ecological Information

Ecotoxicity	Product is expected to be very toxic to aquatic organisms, LL/EL50 < 1 mg/l.
Persistence and Degradability	Diazinon is not rapidly degradable.
Mobility	Diazinon is fairly strongly adsorbed onto soil. Mobility is low. T _{1/2} = 2-4 weeks in soil.
Environmental Fate	Non phytotoxic when used as directed. Principle metabolites in animals are diethyl thiophosphate and diethyl phosphate. Degradation in soil and water oxidises to the phosphate (diazoxon) and hydrolysis.
Bioaccumulative Potential	Diazinon does not bio-accumulate.
Other Precautions	Keep ducks, geese and hens off treated areas for 7 days after application.
Acute Toxicity - Fish	For diazinon: LC50 (96h) Zebra danio >0.8 - <1.2µg/L, Bluegill sunfish 16mg/L Rainbow trout 2.6 - 3.2mg/L Carp 7.6 - 23.4mg/L
Acute Toxicity - Daphnia	Diazinon active ingredient = LC50 (48h) 0.96µg/L
Acute Toxicity - Algae	Diazinon active ingredient = EC50 for Selenastrum spp. >1ppm.
Acute Toxicity - Other Organisms	Diazinon active ingredient = Acute Oral LD50 for mallard ducklings 2.7mg/kg, young pheasants 4.3mg/kg. Highly toxic to bees. Slightly toxic to earthworms.

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

UN Number	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (diazinon)
Hazard Class	9
Hazchem Code	2Z
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.

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IMDG EMS F-A, S-F

Other Information Do not carry more than 10L of DEW 600 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.

Section 15 - Regulatory Information

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P7707
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR000180
See www.epa.govt.nz for approval controls.

Packaging and Labelling KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS August 2020.

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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