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| Infosafe No™ 3NU8K | Issue Date : September 2024 | ISSUED by NUFARMNZ |
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Product Name **DIAZINON 20G**

Section 1 - Identification

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| Product Identifier | DIAZINON 20G |
| Product Code | 03430 |
| 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 | A granular insecticide for the control of porina caterpillar and grass grub in pasture, and carrot rust fly. |

Section 2 - Hazard(s) Identification

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| GHS classification of the substance/mixture | Acute oral 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 H312 Harmful in contact with skin H332 Harmful if inhaled H361 Suspected of damaging fertility or the unborn child H372 Causes damage to the nervous system and kidneys through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects H423 Harmful 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 label before use |
| Pictogram (s) | Exclamation mark, Health hazard, Environment |



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| Precautionary Statement – Prevention | P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. 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. P273 Avoid release to the environment. |
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Precautionary Statement – Response
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of water.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
P405 Store locked up.

Precautionary Statement – Storage

Precautionary Statement – Disposal
P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

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| Chemical Characterization | Solid | | |
| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
| | Diazinon | 333-41-5 | 200 g/kg |
| | Hydrated aluminium silicate | 8031-18-3 | <80%w/w |
| | Ingredients determined to be non-hazardous | - | <10%w/w |

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 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 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.

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Section 5 - Firefighting Measures

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| Suitable Extinguishing Media | Choose extinguishing media to suit the burning material. Water fog, foam, carbon dioxide or dry chemical. |
| 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. |
| 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 | 2ZE |
| 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

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| Spills and Disposal | Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). 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 inert material and collect in sealable container for disposal. |
| 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

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| Precautions for Safe Handling | The person mixing or applying DIAZINON 20G 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. Keep ducks and hens off treated areas for 7 days after application. 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 if 200g or more of DIAZINON 20G is applied within 24 hours in a place where members of the public may be lawfully present. |
| 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. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100kg of DIAZINON 20G are subject to signage, and more than 100kg require emergency response plans. |
| 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

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| 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 | Use in a well ventilated area only. |
| Personal Protective Equipment | When opening the container or handling the product wear cotton overalls buttoned to the neck and wrist (and worn outside boots) washable hat, elbow length PVC gloves, impervious boots and a full face respirator with an organic vapour and particulate matter cartridge. |
| 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

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| Form | Solid |
| Appearance | Mottled green granules. |
| Odour | Information is not available. |
| Decomposition Temperature | Information is not available. |
| Boiling Point | 83-84°C/0.0002mmHg for active ingredient diazinon. |
| Solubility in Water | 60mg/l (20°C) for active ingredient diazinon. |
| pH | pH (1%w/w) >7.0 |
| Vapour Pressure | 1.2 x 10 ¹ mPa (25°C) for active ingredient diazinon. |
| Vapour Density (Air=1) | Information is not available. |
| Odour Threshold | Information is not available. |
| Partition Coefficient: n-octanol/water | Kow LogP = 3.30 for active ingredient diazinon. |
| Flash Point | >/=62°C for active ingredient diazinon. |
| Flammability | Not flammable. |
| Auto-ignition Temperature | 360°C for active ingredient diazinon. |
| 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. |
| Particle Size | <1180µm; >600µm: min 80%RT |
| Relative Density | 1.11 (20°C) for active ingredient diazinon. |
| Melting/Freezing Point | Information is not available. |
| Other Information | (GR) Granule |

Section 10 - Stability and Reactivity

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| 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 |
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| Incompatible Materials | hydrolysed in alkaline media, and more rapidly in acidic media. Avoid contact with oxidising agents. Do not mix with copper compounds, Bordeaux mixture or lime sulphur. |
| Hazardous Decomposition Products | S-TEPP and diazoxon may form when diazinon is reacted with trace amounts of water. |
| Hazardous Polymerization | Hazardous polymerisation will not occur. |

Section 11 - Toxicological Information

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| 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) 1250mg/kg for active ingredient diazinon. |
| Acute Toxicity - Inhalation | LC50 (rat) >2330mg/m ³ /4h for active ingredient diazinon. |
| Acute Toxicity - Dermal | LD50 (rat) >2150mg/kg for active ingredient diazinon. |
| Ingestion | Harmful if swallowed. |
| Inhalation | Harmful if inhaled. |
| Skin | Harmful if absorbed through the skin. |
| Skin Corrosion/Irritation | Not an irritant (rabbits) to skin for active ingredient diazinon. |
| Serious Eye Damage/Irritation | Not an irritant (rabbits) to eye for active ingredient diazinon. |
| Skin Sensitisation | Information is not available. |
| Germ Cell Mutagenicity | Information is not available. |
| Carcinogenicity | Diazinon is non-carcinogenic (in rats). |
| Reproductive Toxicity | Suspected of damaging fertility or the unborn child. |
| STOT - Single Exposure | Information is not available. |
| STOT - Repeated Exposure | Causes damage to the nervous system and kidneys through prolonged or repeated exposure. |
| Aspiration Hazard | Information is not available. |
| 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(H) 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 2/2024). Aluminium silicate, like other naturally occurring minerals, contains crystalline silica. The International Agency for Research on Cancer (IARC) has determined that there is inadequate evidence of carcinogenicity to humans and limited evidence of carcinogenicity to experimental animals (class 3). |

Section 12 - Ecological Information

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| Persistence and Degradability | Diazinon is not rapidly degradable. |
| Mobility | Diazinon is fairly strongly adsorbed onto soil. DT50 c. 11-21d (laboratory). Mobility of diazinon is low. |
| Environmental Fate | Non-phytotoxic when used as directed. Principle metabolites in animals are diethyl thiophosphate and diethyl |

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phosphate.
Degradation in soil and water oxidises to the phosphate (diazoxon) and hydrolysis.

Bioaccumulative Potential Diazinon does not bioaccumulate.

Acute Toxicity - Fish LC50 (96h) Bluegill sunfish 16mg/L for active ingredient diazinon.

Acute Toxicity - Daphnia LC50 (48h) 0.96µg/L for active ingredient diazinon.

Acute Toxicity - Algae EC50 for Selenastrum spp. >1ppm for active ingredient diazinon.

Acute Toxicity - Other Organisms Birds: LD50 for mallard ducklings 2.7mg/kg for active ingredient diazinon.
Bees: Highly toxic to bees for active ingredient diazinon.
Worms: Slightly toxic to the earthworms for active ingredient diazinon.

Section 13 - Disposal Considerations

Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal Ensure container is completely empty. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in an appropriate landfill.

Section 14 - Transport Information

UN Number 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (diazinon)

Hazard Class 9

Hazchem Code 2ZE

Packaging Method -

Packing Group III

EPG Number -

IERG Number 47

IMO Marine Pollutant Yes. Environmentally Hazardous Substance mark required.

IMDG EMS F-A, S-F

Other Information Do not carry more than 10kg of DIAZINON 20G 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. P1577
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR000175
See www.epa.govt.nz for approval controls.

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
NORMAL HOURS: Emergency Response Co-ordinator: (649) 268 2920
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.



Material Safety Data Sheet

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