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| Infosafe No™ 3NUPZ | Issue Date : June 2020 | ISSUED by NUFARMNZ |
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 Product Name **SPRINTER® 700DS**

1. Identification

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| GHS Product Identifier | SPRINTER® 700DS |
| Product Code | 00081 |
| Product Type | Herbicide |
| Company Name | Nufarm NZ |
| Address | 6 Manu Street, Otahuhu Auckland 2024 New Zealand |
| Telephone/Fax Number | Tel: 0-9-270 4150 |
| Emergency phone number | 0800 651 911 |
| E-mail Address | nzinfo@nufarm.com |
| Recommended use of the chemical and restrictions on use | Non-volatile 2,4-D liquid for broadleaf weed control in cereals and pasture. |
| 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

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| GHS classification of the substance/mixture | Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land. |
| Signal Word (s) | DANGER |
| Hazard Statement (s) | H302 Harmful if swallowed. H372 Causes damage to organs liver or kidney through prolonged or repeated exposure . H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects. 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) | Corrosion, Exclamation mark, Health hazard, Environment |



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| Precautionary statement – Prevention | P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary statement – Response | P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. |

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| Precautionary statement – Disposal | 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 or doctor/physician. P391 Collect spillage. |
| Other Information | P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details. 6.1D acute toxicant, 6.5B sensitiser, 6.9A target organ toxicant, 8.3A eye corrosive, 9.1B aquatic toxicant, 9.2A soil toxicant, 9.3B terrestrial vertebrate toxicant, |

3. Composition/information on ingredients

| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|-------------|--|------------|-------------------|
| | 2,4-D present as dimethylamine and monomethylamine salts | 94-75-7 | 700 g/L |
| | Water | | 10-30 % |
| | Other ingredients (considered non-hazardous) | | <10% |

4. First-aid measures

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| 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 contact | 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 | Treat symptomatically. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog, foam, carbon dioxide or dry chemical. |
| Hazards from Combustion Products | May emit toxic fumes of hydrogen chloride, phosgene or amines if involved in fires or exposed to extreme heat. |
| 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 Temp. | Information not available. |
| Other Information | Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable |

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Number of Fire Extinguishers: Not applicable

6. Accidental release measures

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| Spills & 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. |
| Personal Protection | For appropriate personal protective equipment (PPE), refer Section 8. |
| Environmental Precautions | This product is a herbicide and spills can damage crops, pastures and desirable vegetation. |

7. Handling and storage

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| Handling and Storage | The person mixing or applying SPRINTER 700DS 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. |
| Precautions for Safe Handling | Avoid skin and eye contact and inhalation of spray mist or dust. 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. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. RE-ENTRY PERIOD: 24 hours |
| 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, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1,000L of SPRINTER 700DS require secondary containment, more than 1,000L require emergency response plans and 100L require signage. |
| Corrosiveness | Corrosive to eyes. |
| 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. |

8. Exposure controls/personal protection

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| Occupational exposure limit values | No exposure standards have been set for this product. WES TWA for 2,4-D (CAS 94-75-7) = 10 mg/m ³ WES TWA for Dimethylamine = 18 mg/m ³ and vapour = 10ppm |
| 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, washable hat, 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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| Form | Liquid |
| Appearance | Brown liquid |
| Odour | Strong amine odour |
| Decomposition Temperature | Information not available. |

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| Melting Point | <0°C |
| Melting/Freezing Point | Information not available. |
| Boiling Point | 100°C |
| Solubility in Water | Soluble in water. |
| Specific Gravity | 1.24 |
| pH | 9 - 10 (1% solution) |
| Vapour Pressure | 2,4D salts are non-volatile |
| Vapour Density (Air=1) | Property does not apply. |
| Partition Coefficient: n-octanol/water | Information not available. |
| Flash Point | Not flammable |
| Flammability | Non combustible material. |
| Auto-Ignition Temperature | Information not available. |
| Flammable Limits - Lower | Property does not apply. |
| Flammable Limits - Upper | Property does not apply. |
| Kinematic Viscosity | Information not available. |
| Other Information | (SL) Soluble concentrate |

10. Stability and reactivity

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| Chemical Stability | Stable under normal conditions of handling and storage. |
| Incompatible Materials | <p>Reaction of the concentrate or spray mix with acids will precipitate solid 2,4-D and largely de-activate the product and cause blockages in spray equipment.</p> <p>The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour.</p> <p>Dimethylamine is moderately toxic, LD50 (oral, rat) is 660 mg/kg and a TLV of 2 ppm (TWA) has been set.</p> |
| Possibility of hazardous reactions | Keep away from strong oxidising agents. |
| Hazardous Polymerization | Hazardous polymerisation is not possible. |

11. Toxicological Information

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| Toxicology Information | No harmful effects are expected if the precautions on the label and this SDS are followed. |
| Acute Toxicity - Oral | LD50 (rat) 949 mg/kg for 2,4-D dimethylamine salt |
| Acute Toxicity - Dermal | LD50 (rat) 2,115 mg/kg for 2,4-D dimethylamine salt |
| Acute Toxicity - Inhalation | LC50 (rat) (4hr) >3.5 mg/l for 2,4-D dimethylamine salt |
| Ingestion | <p>Not a likely route of exposure.</p> <p>Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.</p> <p>Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.</p> |
| Inhalation | <p>Not a likely route of exposure when handling the concentrate.</p> <p>Symptoms of exposure by inhalation are similar to those described for ingestion.</p> |

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| Skin | Prolonged contact with the concentrate may cause irritation. Prolonged contact with the concentrate may result in absorption of 2,4-D in harmful amounts. |
| Eye | Will irritate the eyes. Prolonged contact with the concentrate may cause damage to the eye. |
| Skin Sensitisation | Prolonged and repeated skin contact may result in skin sensitisation. |
| Germ cell mutagenicity | Information not available. |
| Carcinogenicity | The weight of the evidence is that 2,4-D is not carcinogenic. |
| Reproductive Toxicity | Information not available. |
| STOT-repeated exposure | Causes liver or kidney damage from repeated oral exposure at high doses. |
| Chronic Effects | Chronic Overexposure: Repeated absorption of relatively large amounts of 2,4-D presents a risk to the liver and kidneys. |
| Serious eye damage/irritation | Severe irritant |
| Skin corrosion/irritation | Not a skin irritant. |
| Other Information | The Australian Acceptable Daily Intake (ADI) for 2,4-D for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based 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 Health, Office of Chemical Safety, 'ADI List', March 2020). |

12. Ecological information

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| Persistence and degradability | 2,4-D dimethylamine salt is not rapidly degradable |
| Bioaccumulative Potential | 2,4-D dimethylamine salt is not bioaccumulative |
| Other Precautions | Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. |
| Environmental Protection | Spray drift can cause damage, read the label for more information. |
| Acute Toxicity - Fish | LC50 (96hr) for zebrafish is >1000 mg/l for formulated product LC50 (96hr) for rainbow trout is 100 mg/l for 2,4-D dimethylamine salt |
| Acute Toxicity - Algae | EC50 (5d) for <i>Selenastrum capricornutum</i> = 51.2 mg/l for 2,4-D dimethylamine salt. Chronic NOEC (14d) for duckweed = 0.27mg/L for 2,4-D dimethylamine salt |
| Acute Toxicity - Other Organisms | Birds: Not toxic to birds. Oral LD50 bobwhite quail is 500mg/kg for 2,4-D dimethylamine salt Bees: Not toxic to bees. LD50 (contact) >100µg/bee, (oral) c. 94µg/bee for 2,4-D dimethylamine salt Plants: EC25(14d) mustard seedling is 0.00543mg/kg for 2,4-D dimethylamine salt |

13. Disposal considerations

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| 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 the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill. |

14. Transport information

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| Transport Information | It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. |
| U.N. Number | 3082 |

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| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (contains 2,4-D, 70%) |
| Transport hazard class(es) | 9 |
| Hazchem Code | 2Z |
| 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 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 segregation. Refer NZS5433 sea segregation for details. |

15. Regulatory information

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| National and or International Regulatory Information | Registered pursuant to the ACVM Act 1997, No. P8712 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR100806 See www.epa.govt.nz for approval controls. |
| Hazard Rating Systems | NFPA/HMIS: 3-1-1 |

16. Other Information

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| Date of preparation or last revision of SDS | May 2018 |
| 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 | Hazard classification updated due to availability of new information. Also various changes made to make the SDS GHS compliant. ...End Of MSDS... |

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