

Infosafe No™ 3NUPZ	Issue Date : May 2018	ISSUED by NUFARMNZ
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 Product Name **SPRINTER® 700DS**

1. Identification

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
Email	info@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

Other Information	6.1D acute toxicant, 6.5B sensitiser, 6.8B reproductive or developmental toxicant, 6.9A target organ toxicant, 8.3A eye corrosive, 9.1B aquatic toxicant, 9.2A soil toxicant, 9.3B terrestrial vertebrate toxicant, TOXICITY Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May cause sensitisation from prolonged skin contact. May cause reproductive/development damage from repeated oral exposure. Toxic - may cause liver or kidney damage from repeated oral exposure at high doses. CORROSIVE Danger - this product is corrosive and may cause eye damage. ECOTOXIC Toxic to aquatic organisms with long-lasting effects. Selective herbicide - very toxic to some plant species. Toxic to terrestrial vertebrates.
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3. Composition/information on ingredients

Chemical Characterization	Liquid		
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

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

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Skin	766). Seek medical assistance immediately. 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

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	2X
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

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

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist or dust. APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor. 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

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
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Appropriate engineering controls	WES TWA for Dimethylamine = 18 mg/m ³ and vapour = 10ppm 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

Form	Liquid
Appearance	Brown liquid
Odour	Strong amine odour
Melting Point	<0°C
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
Flash Point	Not flammable
Flammability	Non combustibile material.
Other Information	(SL) Soluble concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	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. The addition of a strong alkali such as caustic soda will cause release of dimethylamine vapour. Dimethylamine is moderately toxic, LD50 (oral, rat) is 660 mg/kg and a TLV of 2 ppm (TWA) has been set.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

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	Not a likely route of exposure. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury. Ingestion of the concentrate in relatively large amounts can result in headache, nausea, lethargy, motor weakness and incoordination.
Inhalation	Not a likely route of exposure when handling the concentrate. Symptoms of exposure by inhalation are similar to those described for ingestion.
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.

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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.
Carcinogenicity	The weight of the evidence is that 2,4-D is not carcinogenic.
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', December 2014).

12. Ecological information

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 Selenastrum capricornutum = 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

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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (contains 2,4-D, 70%)
Transport hazard class(es)	9
Hazchem Code	2X
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 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

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.

Packaging & Labelling HARMFUL * CORROSIVE - keep out of reach of children
ECOTOXIC

Hazard Rating NFPA/HMIS: 3-1-1

Systems

Hazard Category HARMFUL * CORROSIVE * ECOTOXIC - Keep out of reach of children

16. Other Information

Date of preparation or last revision of SDS April 2013

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
5 yearly review carried out. Various changes and updates made to document.

Revisions Highlighted

...End Of MSDS...

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