

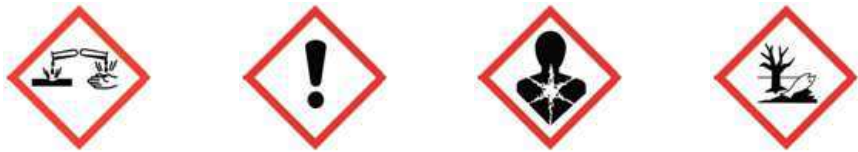
Infosafe No™ 3NUEB	Issue Date : June 2020	ISSUED by NUFARMNZ
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Product Name **CROP CARE CAPTAN 900WG**

1. Identification

GHS Product Identifier	CROP CARE CAPTAN 900WG
Product Code	02584
Product Type	Fungicide
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	A fungicide for the control of certain fungous diseases of fruit, vegetables, ornamentals, turf, greenhouse crops and for certain soil borne diseases.
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

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.
Hazard Statement (s)	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H351 Suspected of causing cancer. H400 Very toxic to aquatic life.
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
	
Precautionary statement – Prevention	P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P391 Collect spillage.
Precautionary statement – Storage	P405 Store locked up.
Precautionary statement – Disposal	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

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Other Information 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.

6.3B skin irritant, 6.5B sensitiser, 6.7B possible carcinogen, 8.3A eye corrosive, 9.1A aquatic toxicant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Captan	133-06-2	900g/kg
	Ingredients determined to be non-hazardous	-	<10%
	Talc	14807-96-6	<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 764 766). 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. Remove contact lenses, if present and easy to do. Seek medical assistance even if there are no immediate symptoms.

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 If involved in a fire, it will emit oxides of nitrogen and carbon, hydrogen chloride and possibly thiophosgene.

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

Decomposition Temp. Information is not available.

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. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. 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 approved landfill.

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Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions Prevent from entering drains, waterways or sewers.

7. Handling and storage

Handling and Storage Do not handle until all safety precautions have been read and understood. The person mixing or applying CROP CARE CAPTAN 900WG 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.
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 3kg or more is applied within 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. Storage must be in accordance with NZS 8409 Management of Agrichemicals.
Stores containing 100kg of CROP CARE CAPTAN 900WG are subject to signage, and more than 100kg require emergency response plans.

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 limits (WES, TEL or EEL's) have been specifically assigned for this product. WES TWA for captan = 5mg/m³

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, impervious gloves, waterproof hat, coat and trousers (worn outside rubber boots) and a NIOSH approved half face mask with organic vapour cartridge + dust/mist prefilter.

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 Solid

Appearance Beige granules

Odour Faint characteristic odour

Decomposition Information is not available.

Temperature

Melting Point 175 - 178°C for captan

Boiling Point Information is not available.

Solubility in Water Disperses in water.

pH 5.0 - 7.5

Vapour Pressure <1.3 mPa @ 25°C for captan

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Vapour Density (Air=1)	Information is not available.
Partition Coefficient: n-octanol/water	Kow Log P is 2.8 (25°C for captan)
Density	600 - 700
Flash Point	Information is not available.
Flammability	Combustible.
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.
Other Information	(WG) Water Dispersible Granule

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage. Hydrolyses at pH>7.
Conditions to Avoid	Excessive heat and fire.
Incompatible Materials	Do not mix with Bordeaux mixture, lime sulphur, or oils.
Possibility of hazardous reactions	Keep away from strong oxidising agents.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 9,000 mg/kg for captan
Acute Toxicity - Dermal	LD50 (rabbit) >4,500 mg/kg for captan
Acute Toxicity - Inhalation	LC50 (rat) 0.668 mg/L for captan
Ingestion	Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea.
Inhalation	Breathing in high concentrations of dusts or aerosols of this material may cause headache, nausea, dizziness and weakness.
Skin	Prolonged contact with the concentrate may result in absorption of captan in harmful amounts. May cause sensitisation by prolonged or repeated skin contact. Repeated or prolonged contact with the concentrate may lead to irritant contact dermatitis.
Eye	The granule or dust may physically irritate the eye.
Skin Sensitisation	Moderate skin sensitiser.
Carcinogenicity	Captan technical is not carcinogenic to rats or dogs following chronic dietary exposure. In mice, chronic dietary exposure to captan technical produced increased tumors of the small intestine, but only at high doses. The tumors are a result of chemical irritation of the intestine following repeated high doses, and not a mutagenic effect. The NOEL for tumor formation was 400 ppm captan technical in diet.
Reproductive Toxicity	Teratology/Developmental Toxicity: Captan is not teratogenic when tested in rabbits or hamsters. Embryotoxicity and fetotoxicity were observed in animal studies only at maternally toxic doses. Reproduction: In a 3-generation rat study, Captan Technical had no effects on

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STOT-repeated exposure	fertility, gestation length or litter size. Pup survival was reduced at doses = 250 mg/kg/day. A 1-generation study showed decreased pup (rat) weights at 12.5 mg/kg/day.
Serious eye damage/irritation	Not a specific target organ toxicant.
Mutagenicity	Severe irritant
Respiratory Irritation	Mutagenicity: In vivo, captan has been examined in many systems and the overall conclusion is that it does not have significant genotoxic activity. Genotoxicity has been shown in vitro primarily for prokaryotic and nonmammalian eukaryotic cells when cellular protective mechanisms (GSH, etc.) are absent.
Skin corrosion/irritation	Dust may cause respiratory irritation.
Subchronic/Chronic Toxicity	Mild irritant (rabbit)
Other Information	Neurotoxicity: Captan is not a neurotoxin.
	The Australian Acceptable Daily Intake (ADI) for captan for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 10 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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2020).

12. Ecological information

Persistence and degradability	Rapidly biodegraded within a few days especially in wet conditions. TD50 c. 1 day (25°C, pH7.2, organic matter 1.2%)
Mobility	Captan does not leach to ground water.
Environmental Fate	In mammals, the three chlorine atoms are cleaved under the influence of cellular sulfhydryl compounds. Trithiocarbamate, thiophosgene, and tetrahydrophthalimide are formed.
Bioaccumulative Potential	Captan does not bioaccumulate in aquatic organisms.
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96h): Harlequin fish = 0.3mg/L, Bluegill sunfish = 0.072mg/L, Brook trout = 0.034mg/L LC50 Brown trout = 26.2ppb
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 7-10 mg/l for captan.
Acute Toxicity - Algae	EC50 Skeletonema costatum is 0.18ppm for captan
Acute Toxicity - Other Organisms	LD50 (contact) 788µg/bee; (oral) 91µg/bee. LD50: Mallard ducks and pheasants = >5,000mg/kg, Bobwhite quail = 2,000-4000mg/kg

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.

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	3077

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Product Name **CROP CARE CAPTAN 900WG**

UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (captan, 90%)
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.
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. P7549 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000503 See www.epa.govt.nz for approval controls.
Hazard Rating Systems	NFPA/HMIS: 3-1-1

16. Other Information

Date of preparation or last revision of SDS	May 2015
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	5 yearly review carried out. Minor changes made to the SDS.
Other Information	Supersedes SDS issued May 2015 ...End Of MSDS...

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