

Infosafe No™ 3NUEB	Issue Date : May 2015	ISSUED by NUFARMNZ
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Product Name **CROP CARE CAPTAN 900WG**

## 1. Identification

<b>GHS Product Identifier</b>	CROP CARE CAPTAN 900WG
<b>Product Code</b>	02584
<b>Product Type</b>	Fungicide
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Recommended use of the chemical and restrictions on use</b>	A fungicide for the control of certain fungous diseases of fruit, vegetables, ornamentals, turf, greenhouse crops and for certain soil borne diseases.
<b>Other Information</b>	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

<b>Other Information</b>	6.3B skin irritant, 6.5B sensitiser, 6.7B possible carcinogen, 8.3A eye corrosive, 9.1A aquatic toxicant. TOXICITY Harmful-may cause skin irritation and sensitisation from prolonged skin contact. Limited evidence of a carcinogenic effect in animal studies. CORROSIVE Danger- this product is corrosive and may cause eye damage. ECOTOXIC Very toxic to aquatic organisms.
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## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Solid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Captan	133-06-2	900g/kg
	Ingredients determined to be non-hazardous	-	<10%
	Talc	14807-96-6	<10%

## 4. First-aid measures

<b>First Aid Measures</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin</b>	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.
<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Treat symptomatically.

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## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog, foam, carbon dioxide or dry chemical.

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

**Products**

**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. 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.

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

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

**Precautions for Safe Handling** Avoid skin and eye contact and inhalation of spray mist.  
APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.  
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/m<sup>3</sup>

**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.

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## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	Beige granules
<b>Odour</b>	Faint characteristic odour
<b>Melting Point</b>	175 - 178°C for captan
<b>Solubility in Water</b>	Disperses in water.
<b>pH</b>	5.0 - 7.5
<b>Vapour Pressure</b>	<1.3 mPa @ 25°C for captan
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 2.8 (25°C for captan)
<b>Density</b>	600 - 700
<b>Flammability</b>	Combustible.
<b>Other Information</b>	(WG) Water Dispersible Granule

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) 9,000 mg/kg for captan
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >4,500 mg/kg for captan
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) 0.668 mg/L for captan
<b>Ingestion</b>	Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea.
<b>Inhalation</b>	Breathing in high concentrations of dusts or aerosols of this material may cause headache, nausea, dizziness and weakness.
<b>Skin</b>	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.
<b>Eye</b>	The granule or dust may physically irritate the eye.
<b>Skin Sensitisation</b>	Moderate skin sensitiser.
<b>Carcinogenicity</b>	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.
<b>Reproductive Toxicity</b>	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 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.

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<b>Serious eye damage/irritation</b>	Severe irritant
<b>Mutagenicity</b>	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.
<b>Respiratory Irritation</b>	Dust may cause respiratory irritation.
<b>Skin corrosion/irritation</b>	Mild irritant (rabbit)
<b>Subchronic/Chronic Toxicity</b>	Neurotoxicity: Captan is not a neurotoxin.
<b>Other Information</b>	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', June 2014).

## 12. Ecological information

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

## 13. Disposal considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	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

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>U.N. Number</b>	3077
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (captan, 90%)
<b>Transport hazard class(es)</b>	9
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>EPG Number</b>	-



# Safety Data Sheet

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**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](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to the HSNO Act 1996, Approval Code HSR000503  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.  
**Packaging & Labelling** ECOTOXIC  
CORROSIVE - keep out of reach of children  
**Hazard Rating Systems** NFPA/HMIS: 3-1-1

## 16. Other Information

**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. Minor changes made to the SDS.  
**Revisions Highlighted**  
**Other Information** Supersedes SDS issued April 2010  
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