



# Material Safety Data Sheet

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Infosafe No™ 3NUEJ	Issue Date : August 2011	ISSUED by CRPCARE
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Product Name **CAPTAN 900WG Fungicide**

Classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	CAPTAN 900WG Fungicide
<b>Product Code</b>	5159
<b>Product Type</b>	Group M4 Fungicide
<b>Company Name</b>	Crop Care Australasia Pty Ltd (ABN 53 061 362 347)
<b>Address</b>	Unit 15/16 Metroplex Avenue Murarrie Queensland 4172 Australia
<b>Emergency Tel.</b>	1800 033 498 (24hr Australia)
<b>Telephone/Fax Number</b>	Tel: +61 7 3909 2000 Fax: +61 7 3909 2010
<b>Recommended Use</b>	For the control of certain diseases in a range of fruit crops, turf and ornamentals as per the Directions for Use table on the label.
<b>Other Information</b>	This MSDS 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. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Classified as hazardous HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
<b>Risk Phrase(s)</b>	Classified as hazardous R23 Toxic by inhalation. R40 Limited evidence of a carcinogenic effect. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact.
<b>Safety Phrase(s)</b>	S1/2 Keep locked up and out of reach of children. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S38 If insufficient ventilation, wear suitable respiratory equipment. S45 In case of accident or if you feel unwell seek medical advice immediately
<b>Other Information</b>	Poisons Schedule S6

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Solid															
<b>Ingredients</b>	<table><thead><tr><th><u>Name</u></th><th><u>CAS</u></th><th><u>Proportion</u></th></tr></thead><tbody><tr><td>Captan</td><td>133-06-2</td><td>900 g/kg</td></tr><tr><td>Talc</td><td>14807-96-6</td><td>0-10 %</td></tr><tr><td>Anionic Components</td><td></td><td>0-10 %</td></tr><tr><td>Non hazardous components</td><td></td><td>0-10 %</td></tr></tbody></table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	Captan	133-06-2	900 g/kg	Talc	14807-96-6	0-10 %	Anionic Components		0-10 %	Non hazardous components		0-10 %
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Non hazardous components		0-10 %														

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms persist, seek medical attention immediately.
<b>Ingestion</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26. If vomiting occurs, give more water to drink to assist dilution. Rinse mouth and then drink plenty of water.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.



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<b>Eye</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion</b>	If involved in a fire, it will emit oxides of nitrogen and carbon, hydrogen chloride and possibly thiophosgene.
<b>Products</b>	
<b>Other Information</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal</b>	Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.
<b>Personal Protection</b>	Wear a face mask that protects against toxic dusts, eye protection, chemically resistant gloves and overalls while dealing with spilled material.
<b>Environmental Precautions</b>	Use earthen bunds or absorbent bunding to prevent spreading of spillage.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.
<b>Conditions for Safe Storage</b>	Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Store in a locked enclosure. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.
<b>Other Information</b>	Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	Safe Work Australia has set the following exposure standard for captan : TLV (TWA) 0.5 mg/m <sup>3</sup> , STEL -. SK The Safe Work Australia exposure standard for captan contains a carcinogen, sensitiser and skin notice. CARCINOGEN CATEGORY NOTICE: Category 2. Probable human carcinogen for which there is sufficient evidence to provide a strong presumption that human exposure might result in the development of cancer. 'Sen' notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance. 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. Safe Work Australia has set the following exposure standard for talc (insirable dust) : TLV (TWA) 2.5 mg/m <sup>3</sup> , STEL -. Safe Work Australia, HSIS database, lists Captan as both carcinogen category 2 (exposure standard) and R40 (carcinogen category 3).
<b>Engineering Controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.
<b>Personal Protective Equipment</b>	When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Re-entry period: Do not enter treated area until spray has dried. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
<b>Hygiene Measures</b>	



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<b>Requirements Concerning Special Training</b>	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid
<b>Appearance</b>	Grey brown 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>Vapour Pressure</b>	<1.3 mPa @ 25°C for captan
<b>Octanol/Water Partition Coefficient</b>	Kow Log P is 2.8 (25°C for captan)
<b>Flammability</b>	Combustible

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions. Hydrolyses at pH >7.
<b>Conditions to Avoid</b>	Excessive heat and fire.
<b>Hazardous Reactions</b>	Keep away from strong oxidising agents.
<b>Hazardous Polymerization</b>	Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Breathing in high concentrations of dusts or aerosols of this material may cause headache, nausea, dizziness and weakness.
<b>Ingestion</b>	Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea.
<b>Skin</b>	Prolonged contact with the concentrate may result in absorption of captan in harmful amounts. May cause sensitisation by prolonged skin contact. Repeated or prolonged contact with the concentrate may lead to irritant contact dermatitis.
<b>Eye</b>	The concentrate may cause irritation of the eyes.
<b>Carcinogenicity</b>	Safework Australia has classified captan as a carcinogen of Category 3, a substance that causes concern for a possible carcinogenic effect based on appropriate animal studies where the available evidence is insufficient to support classification as either a presumed (Category 2) or known (Category 1) carcinogen. Safe Work Australia, HSIS database, lists Captan as both carcinogen category 2 (exposure standard) and R40 (carcinogen category 3).
<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
<b>Eye Irritation</b>	Captan is a severe eye irritant.
<b>Skin Irritation</b>	Mild to moderate skin irritant.
<b>Respiratory Irritation</b>	The product is a respiratory irritant.
<b>Skin Sensitisation</b>	Prolonged and repeated skin contact may result in skin sensitisation.
<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 and



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Environmental Health, 'ADI List', March 2010).

## 12. ECOLOGICAL INFORMATION

<b>Persistence / Degradability</b>	Half life in soil is typically 1 day.
<b>Known Harmful Effects on the Environment</b>	The active ingredient captan is highly toxic to fish and aquatic organisms.
<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environ. Protection</b>	Marine pollutant.
<b>Acute Toxicity - Fish</b>	The following is data for the active ingredient, captan. LC50 (96hr) for bluegill sunfish is 0.072 mg/l. LC50 (96hr) for brook trout is 0.034 mg/l. LC50 (48hr) for daphnia is 7 - 10 mg/l for captan.
<b>Acute Toxicity - Daphnia</b>	
<b>Acute Toxicity - Other Organisms</b>	Bees: Not toxic to bees. LD50 is 91 µg/bee. Not toxic to birds. LD50 for mallard ducks and pheasants is >5000 mg/kg LD50 for bobwhite quail is 2000 - 4000 mg/kg

## 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
<b>Container Disposal</b>	Do not use this container for any other purpose. Shake the last amount of product from the bag into application equipment. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

<b>Storage and Transport</b>	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01. For bulk shipments as Class 9, use UN 3077, HazChem code 2Z.
<b>UN Number (Sea Transport)</b>	3077
<b>IMO Class/Packing Group</b>	Class 9; Packing Group III
<b>IMO Marine Pollutant</b>	Marine Pollutant
<b>IMO Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Captan)

## 15. REGULATORY INFORMATION

<b>Poisons Schedule</b>	S6
<b>Packaging &amp; Labelling</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Hazard Category</b>	Toxic, Irritant
<b>AICS (Australia)</b>	All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION



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**Date of preparation** Reviewed 17/08/2011

**or last revision of**

**MSDS**

**Contact**

Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000

**Person/Point**

After Hours: Shift Supervisor Phone: 1800 033 498

**Literature**

1. IPCS INTOX Databank

**References**

2. US EPA notice CFR Vol 69, No. 226 pg 68357

**Revisions**

The MSDS was reviewed. Various changes were made to the information.

**Highlighted**

Changes to section 8 - exposure standards; and

section 11 - carcinogenicity.

...End Of MSDS...

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