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Infosafe No. 3NU₆O Issue Date: August 2007 ISSUED by CRPCARE

Product Name: **CAPTAN WG Fungicide**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name CAPTAN WG Fungicide

Product Code 5121

Product Type Group Y Fungicide

Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)

Address Unit 15/16 Metroplex Avenue Murarrie

Queensland 4172 Australia

1800 033 498 (24hr Australia) **Emergency Tel.**

Tel: +61 7 3909 2000 Telephone/Fax Fax: +61 7 3909 2010 Number

Recommended Use 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

Other Information 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

Hazard HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Classification

Hazard classification according to the criteria of NOHSC.

Dangerous goods classification according to the Australia Dangerous Goods

Risk Phrase(s) 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.

Safety Phrase(s) 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

Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Solid Characterization

Ingredients **CAS Name Proportion**

> 133-06-2 800 g/kg Captan <10% Non hazardous components

Talc 14807-96-6 <10%

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered.

If symptoms persist, seek medical attention immediately.

If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 $\,$ 11 $\,$ 26. Ingestion

If vomiting occurs, give more water to drink to assist dilution.

Rinse mouth and then drink plenty of water.

Skin Wash affected areas thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

If irritation persists, seek medical advice.

If in eyes, hold eyelids open and wash with copious amounts of water for at Eye

least 15 minutes.

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Seek medical advice immediately.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Water fog, foam, carbon dioxide or dry chemical.

Extinguishing Media

Hazards from Combustion

If involved in a fire, it will emit oxides of nitrogen and carbon, hydrogen

chloride and possibly thio phosgene.

Products Other Information

Hazchem code 2[Z] .

STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal 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.

Personal Protection Wear a face mask that protects against toxic dusts, eye protection, chemically

resistant gloves and overalls while dealing with spilled material.

7. HANDLING AND STORAGE

Precautions for Safe

Avoid generating dusts while handling the product and mixing.

Handling **Conditions for Safe**

Storage

If dusts are generated, it is advisable to wear a dust mask, refer Section 8. 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.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

NOHSC has set the following exposure standard for captan : TLV (TWA) 0.5mg/m3, STEL -.

The NOHSC exposure standard for captan (pre 1995) 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

'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. NOHSC has set the following exposure standard for talc : TLV (TWA) 2.5 mq/m3, STEL -.

The most recent classification by the European Union (ATP28) in 2003 classifies captan as carcinogen Cat 3, substances that cause concern for man owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment. There is some evidence from appropriate animal studies, but this is insufficient to place the substance in Category 2.

Australia, in its most recent list (Hazardous Substances Information System) classifies captan as R40, Carc:Cat 3. The NOHSC exposure standard (above) has not been modified in the same database.

The US EPA considers captan not likely to be a human carcinogen at levels that do not cause cytotoxicity and regenerative cell hyperplasia, therefore not likely to be a human carcinogen or pose cancer risks of concern when used in accordance with approved product labels.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.

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Personal Protective Equipment

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.

Hygiene Measures 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. NSW regulations require that people who use pesticides in their job or

Requirements **Concerning Special**

business must have training in the application of the materials.

Training

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid

Appearance Grey brown granules

Odour Faint characteristic odour. **Melting Point** 175 - 178°C for captan Solubility in Water Disperses in water.

Vapour Pressure <1.3 mPa @ 25°C for captan

Octanol/Water

Kow Log P is 2.8 (25°C for captan)

Partition Coefficient

Flammability Combustible

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Hydrolyses at pH >7.

Conditions to Avoid Excessive heat and fire.

Hazardous Reactions Keep away from strong oxidising agents. Hazardous Hazardous polymerisation is not possible.

Polymerization

11. TOXICOLOGICAL INFORMATION

Inhalation Breathing in high concentrations of dusts or aerosols of this material may

cause headache, nausea, dizziness and weakness.

Ingestion Possible symptoms of exposure include: nausea, vomiting and gastrointestinal

discomfort and diarrhoea.

Skin 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.

Eye The concentrate may cause irritation of the eyes.

Worksafe Australia has classified captan in the occupational environment as a Carcinogenicity

Carcinogen Category 3 substance. This means that the substance is not classifiable as to carcinogenicity to humans. IARC (International Agency for Research on Cancer) has determined that the mechanism in rats and mice is unlikely to occur in humans; hence captan has been classified by IARC as Cat 3, not classifiable as to carcinogenicity to humans.

The US EPA considers captan not likely to be a human carcinogen at levels that do not cause cytotoxicity and regenerative cell hyperplasia, therefore not likely to be a human carcinogen or pose cancer risks of concern when used in

accordance with approved product labels.

Acute Toxicity - Oral LD50 (rat) 9,000 mg/kg for captan Acute Toxicity -LD50 (rabbit) >4,500 mg/kg for captan

Dermal

Acute Toxicity -LC50 (rat) 0.668 mg/l

Inhalation

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Product Name: **CAPTAN WG Fungicide**

Eve Irritation Captan is a severe eye irritant.

Skin Irritation Mild to moderate skin irritant.

Respiratory Irritation

The product is a respiratory irritant.

Skin Sensitisation Prolonged and repeated skin contact may result in skin sensitisation.

Other Information 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, 'ADI List', TGA, September

2006).

12. ECOLOGICAL INFORMATION

Persistence / Half life in soil is typically 1 day.

Degradability

Known Harmful Effects on the Environment

The active ingredient captan is highly toxic to fish and aquatic organisms.

Other Precautions

Do not contaminate dams, waterways or sewers with this product or the

containers which have held this product.

Environ. Protection Marine pollutant.

Spray drift should be avoided, read the label for more information.

Acute Toxicity - Fish The following is data for the active ingredient, captan.

LC50 (96 hr) for bluegill sunfish is 0.072 mg/l.

LC50 (96 hr) for brook trout is 0.034 mg/l.

LC50 (48 hr) for daphnia is 7 - 10 mg/l for captan.

Acute Toxicity -**Daphnia**

Acute Toxicity -Bees: Not toxic to bees. LD50 91 µg/bee.

Other Organisms Birds: Not toxic to birds. LD50 for mallard ducks and pheasants is >5,000

mg/kg

LD50 for bobwhite quail is 2,000 - 4,000 mg/kg

13. DISPOSAL CONSIDERATIONS

Product Disposal 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®).

Container Disposal 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 $500\,\mathrm{mm}$ 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

Storage and Considered non dangerous for transport by the Australian Code for the

Transport of Dangerous Goods by Road and Rail. **Transport**

UN Number (Sea 3077

Transport)

Class 9; Packing Group III

IMO Class/Packing Group

IMO Proper ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Shipping Name (contains Captan)

15. REGULATORY INFORMATION

Poisons Schedule

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Packaging & POISON

Labelling KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Toxic, Irritant

AICS (Australia) All of the components in this product are listed on the Australian Inventory

of Chemical Substances.

16. OTHER INFORMATION

Contact Person/Point Normal Hours: Mr Volker Maier Phone: (03) 9282 1000

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. Minor changes were made to the information.

Highlighted

...End Of MSDS...