

SAFETY DATA SHEET

CAPETEC®

Date of Issue: 28 May 2019

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Captan

Recommended use: FUNGICIDE

Supplier: Etec Crop Solutions Ltd
31 Tamaki Bay Drive, Pakuranga
Auckland
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.3B, 6.5B, 6.7B, 8.3A, 9.1A

Required identification Details: DANGER
KEEP OUT OF REACH OF CHILDREN

May cause skin irritation
May cause sensitisation
May cause cancer at high doses
Causes serious eye damage
Very toxic to aquatic organisms

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Captan	133-06-2	80
Inert ingredients	-	20

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms

First-aid measures

Inhalation: Move person to fresh air. If person is not breathing call 111

or an ambulance, and then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). Call National Poison Center 0800 Poison (0800 764 766) or Doctor for treatment advice.

Ingestion:

Call the National Poison Center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the Poison Center or Doctor. Never give anything by mouth to an unconscious person.

Skin contact:

May cause irritation to the skin. Immediately get under a safety shower. Wash affected skin areas thoroughly with soap and water. Remove and wash contaminated clothing thoroughly. Do not take clothing home to be laundered. Get prompt medical attention.

Eye contact:

May cause irritation to the eyes. Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes. Call National Poison Center or doctor for treatment advice.

Notes to a physician:

No specific antidote known. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2X

Extinguishing media :

Dry Chemical, Carbon Dioxide, Halon, Water Spray or Standard Foam.

Hazardous thermal (de)composition products:

If involved in a fire, it will emit oxides of nitrogen and carbon, hydrogen chloride and possibility thio phosgene.

Protection of fire-fighters:

Remain upwind. Use water spray to cool containers exposed to fire. Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

Exposure Hazards:

Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes. Wear protective clothing and personal protective equipment as described in section 8. Keep unprotected persons and animals out of the area.

Environmental precautions:

Keep material out of lakes, streams, ponds and sewer drains.

Methods for cleaning up:

Keep dry and shovel waste into a drum and label contents for disposal. If wet, contain spill by forming a dyke. Pump waste into drums and label for disposal.

7. HANDLING AND STORAGE

Handling:	Do not handle material near food, feed or drinking water. Keep out of reach of children.
Storage:	Store away from heat and flames. Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep out of direct sunlight. Storage must be generally in accordance with NZS8409 Management of Agrichemicals. See the HAZNOTE for further information.
Packaging materials:	Aluminium foil bag

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards:

Exposure Standards outside: The workplace:	None established
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Engineering measures

Exposure control measures:	Provide general and/or local ventilation to control airborne levels.
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Personal Protective Equipment

Detail specifications for equipment:

Respiratory system:	If dusts are likely to build up use a suitable dust mask.
Skin and body:	Wear long sleeved shirt, long pants. Wear closed footwear, e.g. boots.
Hands:	Use gloves chemically resistant (eg: nitrile or neoprene) when prolonged or frequently repeated contact could occur.
Eyes:	Use safety glasses if exposure possible.
General hygiene:	Do not eat, drink or smoke when using. Wash hands and face before meals and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granules
Colour:	Off white to light yellow granules.
Odour:	Mildly pungent odour
pH:	Not available
Vapour Pressure:	<1.3 mPa @ 25°C for (Captan Tech)
Vapour Density:	Not available
Boiling Point:	Not applicable
Freezing/melting point:	175-178 °C

Solubility:	Slightly soluble
Specific gravity or density:	30-35#/cu.ft.
Flashpoint:	Not applicable
Octanol/water partition coefficient:	Kow Log P is 2.8 (25°C for captan)
Explosion properties:	Not available
Oxidation properties:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Conditions to avoid:	Moisture, heat
Materials to avoid:	Alkaline and acidic conditions and materials.
Hazardous decomposition Products:	Thermal decomposition may release toxic and/or hazardous gases.
Hazardous polymerization:	Will not polymerise.
Specific Data:	
Hazardous reactions:	None expected

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	LD ₅₀ >5,000 mg/kg (rat)
Acute toxicity – Dermal:	LD ₅₀ >2,000 mg/kg (rat)
Acute toxicity – Inhalation:	LC ₅₀ = 1.0mg/L (rat)
Skin irritation:	Moderate (rabbits)
Eye irritation:	Corrosive (rabbits)
Sensitization:	Slight (guinea pig)
Chronic toxicity	
Carcinogenicity / Mutagenicity:	<p>Captan Technical is not carcinogenic to rats or dogs following chronic dietary exposure. In mice, chronic dietary exposure to Captan Technical produced increased tumours of the small intestine, but only at high doses. The tumours are a result of chemical irritation of the intestine following repeated high doses, and not a mutagenic effect. The NOEL for tumour formation was 400 ppm Captan technical in diet.</p> <p>Teratology/Developmental Toxicity: Captan is not teratogenic when tested in rabbits or hamsters.</p> <p>Mutagenicity: In vivo, Captan has been examined in many systems and the overall conclusion is of no significant genotoxic activity. Genotoxicity has been shown in vitro primarily for prokaryotic and non-mammalian eukaryotic cells when cellular protective mechanisms (GSH, etc.) are absent.</p> <p>Neurotoxicity: Captan is not a neurotoxin.</p>
Reproduction toxicity:	<p>Embryotoxicity and fetotoxicity were observed in animal studies only at maternally toxic doses.</p> <p>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.</p>
Other information :	

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic in the aquatic environment
Fish	LC50 (96h) for bluegill sunfish 0.072, harlequin fish 0.3, brook trout 0.034mg/l
Earthworms	Not available
Bees	Non Toxic to bees
Birds	Low toxicity >5000 mg/kg (mallard ducks & Pheasants) bobwhite quail 2000-4000mg/kg
Mobility	Not available
Soil	
Water	Toxic in the aquatic environment.
Persistence/degradability	Low persistence, half-life of 1 to 10 days in most soil environments.
Soil	
Bioaccumulative potential :	Not available

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Triple rinse container and add residue to spray tank. Recycle empty containers through Agrecovery. Otherwise bury in landfill.
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14. TRANSPORT INFORMATION - International transport regulations

UN number:	3077
Class or Division:	9
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name :	Environmentally Hazardous Substance, Solid, N.O.S (Contains 80% Captan), Marine Pollutant
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	

15. REGULATORY INFORMATION

ACVM Registered Number:	P008921
HSNO Approval Code:	HSR000503

16. OTHER INFORMATION

Additional information:	Original Issue Date: 15 October 2013 Revision Date: 28 May 2019 Replaces: ES381
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EXCLUSION OF LIABILITY: PLEASE READ

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