MSDS No. C018003 Issue Date 21/12/05

### MATERIAL SAFETY DATA SHEET

**Section 1: CHEMICAL IDENTITY AND USE** 

Trade Name: CAPTAN 80 DF

Classification: N-trihalomethylthio

Active ingredient: Captan

Formula: C<sub>9</sub>H<sub>8</sub>Cl<sub>3</sub>NO<sub>2</sub>S

Chemical Name: 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-=1H-isoindole-1,3(2H)-dione.

CAS No.: [133-06-2]. Molecular weight: 300.6 USE of product: Fungicide

Section 2: COMPOSITION /INFORMATION ON INGREDIENTS

Ingredients CAS No. % EU number PEL/TLV EU class NTP/IARC/OSHA
1. Captan [133-06-2] 80.00 DNA DNA DNA DNA
2. Other ingredients 20.00

# **Section 3: HEALTH HAZARD INFORMATION**

**Acute Health effects** 

Acute exposure effect If accidentally swallowed it may cause nausea, vomiting and abdomen pain, when inhaled as a fine dust it may be irritating to the bronchial and lung tissue.

STEL (ACGIH) DNA IDLH DNA

## **Section 4: FIRST AID MEASURES**

If poisoning occurs, contact a doctor or Poison Information Center. Eyes : Rinse eyes well with water for at least 15 minutes.

Skin : Remove any contaminated clothing, wash skin thoroughly. Inhalation : Remove from source of contaminated to open space/fresh air.

Ingestion: Induce vomiting by tickling the back of throat. Repeat it until the vomitus is

clear. Do not induce vomiting if the patient is unconscious.

Antidote : Treat symptomatically.

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**Section 5: FIRE AND EXPLOSION HAZARD** 

Flash point: NA Autoignition temperature: No Explosion sensitivity to static Electricity: Yes Explosion sensitivity to Impact: No

Explosive Material: No
Corrosive Material: No
Oxidizer: No
Flammability LEL % V: Not pertinent

Flammable Material: No
Pyrophoric Material: No
Hazardous polymerization: No
Fire fighting media: Foam, dry agent

UEL % V: Not pertinent Special procedure: No

Organic Peroxide: No.

# Section 6: ACCIDENTAL RELEASE MEASURES

Spills

Steps to be taken: Evacuate endangered area, cut off area. Take up in dry state without forming dust. If small amount, take up by mechanical means and dispose.

## Section 7: WASTE DISPOSAL CONSIDERATIONS

Waste Disposal method: Local regulations should be adhered to. Incineration in controlled furnace. Destroy the empty containers in a safe and authorized place. If burnt avoid inhalation of smoke (if burning permitted). Never re-use empty packs.

# Section 8: HANDLING AND STORAGE PRECAUTION

Store in the closed, original container in a well-ventilated area a. Do not store for long periods in direct sunlight. Keep in cool place.

# **Section 9: PERSONAL PROTECTIVE**

Hand protection : Elbow length nitrile or neoprene gloves

Eye protection : Goggles or face shield, eye wash readily available

Body protection : Wear or long sleeved shirt and long trousers and boots or shoes

# Section 10: PHYSICAL AND CHEMICAL INFORMATION

Appearance: Brown coloured granules Density: Before compaction: 0.6180 After compaction: 0.7186

Alkalinity as NaOH: 0.22%w/w. Wettability: 20 seconds
Persistent foam: 10 ml after 1 min. Suspensibility: 86.4% w/w

Wet Sieve Test: 0 % retention on 350 mesh sieve

### **Section 11: REACTIVITY DATA**

Chemical stability: hydrolysed slowly at neutral pH, rapidly in alkali. Reactivity: None. Incompatible with other material: Alkaline, oil sprays, TEPP, emulsifiable concentrate formulations of parathion

Hazardous reaction product: None.

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# **Section 12: TOXICITY INFORMATION**

Acute toxicity,

Oral LD<sub>50</sub> : 9000 mg/kg Dermal LD<sub>50</sub> :>4500 mg/kgInhalation LC<sub>50</sub> male rats : > 0.72 mg/l: Corrosive Eye contact Skin contact : Mild irritant Skin sensitization : Non sensitizer Mutagenic potential : Non mutagenic : Non teratogenic Teratogenicity potential Carcinogenicity : Non carcinogenic

Chronic /sub chronic toxicity studies : NOEL (2 y) for rats 2000, dogs 4000 mg/kg diet

Acceptable Daily Intake (ADI) : 0.1 mg/kg b.w.

# **Section 13: ECOLOGICAL INFORMATION**

Birds: Acute oral LD<sub>50</sub> for mallard duck and pheasant >5000, bobwhite quail: 2000-4000 mg/kg.

Not toxic to starlings or red-winged blackbirds at 100 mg/kg.

Fish LC<sub>50</sub> (96 hr): for bluegill sunfish 0.072, harlequin fish 0.3, brook trout 0.034 mg/l.

Bees ED<sub>50</sub> (oral): 91, (contact) 788 μg/bee.

Other aquatic spp.: Moderately toxic to aquatic invertebrates.

## **Section 14: TRANSPORT INFORMATION**

Proper shipping name: Environmentally Hazardous Substance, Solid, NOS

State of chemical : Solid IMCO class : 9 UN Number : 3077 IMDG PAGE CODE : 9029 EMS NO. : None

## **Section 15: PACKING INFORMATION**

Packed in 25 kg multi-wall paper bags. Packing group-III.

# Section 16: DISCLAIMER

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