

MATERIAL SAFETY DATA SHEET

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Emergency Telephone No.

1-800-424-9300 (ChemTrec)

SECTION I – GENERAL INFORMATION

TRADE NAME	Hi-Yield Captan 50W Fungicide
CHEMICAL NAME	N-Trichloromethylthio-4-cyclohexene-1, 2-Dicarboximide
CHEMICAL FAMILY	Dicarboximide (Fungicide)
EPA REG. NO.	19713-235-7401
SIGNAL WORD	WARNING

SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

<u>NAME</u>	<u>CAS NO.</u>	<u>% (by wt.)</u>	<u>TLV</u>	<u>CLASS</u>
Captan	133-06-2	48.9	5.0mg/m3	H
Related Derivatives	N/A	1.10	N/A	H
Inerts	N/A	50.0	N/A	NH

SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	N/A	<u>Bulk Density</u>	18-22 lbs/cubic foot
<u>Vapor Pressure</u>	N/A	<u>% Volatiles</u>	NIL
<u>Vapor Density</u>	N/A	<u>Solubility in Water</u>	<0.5 ppm, dispersible
<u>pH</u>	6-7	<u>Appearance/Odor</u>	Slight pungent, off-white powder.

SECTION IV – FIRE & EXPLOSION DATA

Flash Point	N/A
Extinguishing Media	Carbon dioxide, dry chemical, foam, water spray
Fire Fighting Procedures	Smoke may present unusual hazards. In an enclosed building wear self-contained breathing apparatus and protective clothing. Contain water runoff.

SECTION V – REACTIVITY DATA

Stability	Stable
Conditions to Avoid	Excessive heat. Alkaline materials such as spray lime, lime sulfur, and bourdeaux mixture reduce fungicidal activity of captan.
Incompatibility	Avoid contact with strong alkalis
Hazardous Decomposition Products	Combustion products, toxic materials
Hazardous Polymerization	Will not occur

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity	The International Agency for Research on Cancer has examined captan and concluded there is limited evidence for carcinogenicity in animals but insufficient evidence for carcinogenicity in humans.
Toxicity Data	Oral LD50 (Rat) = >5,000 mg/kg (Tech) Dermal LD50 (Rabbit) = >5,000mg/kg (Tech)
TLV	5.0 mg/m3
N.F.P.A.	Health: 1, Fire: 1, Reactivity: 1 (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure	Corrosive to rabbit eyes, mildly irritating to rabbit skin, ingestion may cause vomiting and diarrhea.

SECTION VII – FIRST AID PROCEDURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation and wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use the following procedure:

1. Sweep up or vacuum spilled material being careful not to create dust, and shovel sweepings into an open drum.
2. Generously cover the contaminated areas with common, household detergent. Using a stiff brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders.
3. Spread absorbents on the slurry liquid and shovel mixture into the open drum.
4. Repeat #2 and #3 if necessary.
5. If practical, flush the area with water to a sewer serviced by a wastewater treatment facility.
6. Seal drum and dispose of contaminated material in a landfill permitted for hazardous waste.
7. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call, by day or night, 1-800-424-9300, CHEMTREC.

Disposal Method: This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds. Discarded product is not a hazardous waste under RCRA 40 CFR 261.

Container Disposal: Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal.

SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH approved pesticide respirator
Ventilation	General recommended
Protective Gloves	Chemical-resistant gloves.
Eye Protection	Chemical-resistant goggles
Other	Long-sleeved shirt and long pants, shoes plus socks. Chemical-resistant apron when cleaning equipment, mixing or loading and dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P or HE filter.

The information presented herein for consideration, while not guaranteed, is true and accurate to the best of our knowledge. No warranty, or guaranty is expressed or implied regarding the accuracy or reliability of such information and we shall not be liable for any loss or consequential damages arising out of the use thereof.

Date Prepared: 07/30/07

SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage

KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

Store in cool, dry place. Keep away from children and away from food or feed. Avoid eye or skin contact. Toxic to fish and wildlife.

D.O.T. Description	Environmentally Hazardous Substance, Solid, N.O.S., (Captan), 9, UN-3077, PG-III
Freight Description	Agricultural Fungicide, Solid, N.O.S.
Reportable Quantity	10 lbs.
E.R.G. Guide Sheet	171

CALIFORNIA PROP 65 STATUS: Listed