

MATERIAL SAFETY DATA SHEET

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SECTION I – GENERAL INFORMATION

TRADE NAME **CAPTAN 4 L**
CHEMICAL NAME N-Trichloromethylthio-4 Cyclohexene-1, 2-Dicarboximide
CHEMICAL FAMILY Dicarboximide (Fungicide)
EPA REG. NO. 19713-156
SIGNAL WORD DANGER

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

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Captan	133-06-2	37.64	5.0mg/m ³	H
Related derivatives	N/A	0.86	N/A	H
Inerts	N/A	61.50	N/A	NH

SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	>212°F	<u>Specific Gravity</u>	1.24 gms/cc
<u>Vapor Pressure</u>	NK	<u>% Volatiles</u>	N/A
<u>Vapor Density</u>	N/A	<u>Solubility in Water</u>	<0.5 pp, dispersible
<u>pH</u>	Neutral	<u>Appearance/Odor</u>	Tan colored liquid, mild odor

SECTION IV – FIRE & EXPLOSION DATA

Flash Point 200°F (Non-combustible)
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. Contain water runoff.

SECTION V – REACTIVITY DATA

Stability Stable
Conditions to Avoid Extreme temperatures
Incompatibility Avoid contact with strong alkalis
Hazardous Decomposition Products May produce oxides of sulfur, nitrogen, toxic chlorine compounds, possible CO
Hazardous Polymerization Will not occur

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity N/A
Toxicity Data Oral LD50 (Rat) = 9 gms/kg (Tech)
Dermal LD50 (Rabbit) = >2,000 mg/kg (Tech)
TLV 5.0 mg/m³
N.F.P.A. Health: 3, Fire: 0, Reactivity: 0
(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure Causes irritation of skin, diarrhea, difficulty in breathing

SECTION VII – EMERGENCY 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.
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 Telecommunications Network at 1-800-858-7378.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill
Pick up spills with absorbent material and place in suitable containers. Prevent runoff if possible. Assure that protective equipment is worn.
Waste Disposal Method
Dispose of in accordance with Local, State, and Federal Regulations.

SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH approved pesticide respirator
Ventilation	General recommended
Protective Gloves	Chemical resistant
Eye Protection	Chemical goggles
Other	Long-sleeved shirt and pants, shoes plus socks and a chemical-resistant apron when cleaning, mixing or loading.

SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage
KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.
Store in a 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, Liquid, N.O.S., (Captan), 9, UN3082, PG-III
Freight Description Agricultural Fungicide, Liquid, N.O.S.
Reportable Quantity 10 Lbs.
E.R.G. Guide Sheet 171
State Regulations California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

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.

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