

# MATERIAL SAFETY DATA SHEET

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## SECTION I – GENERAL INFORMATION

TRADE NAME	<b>CAPTAN 4 FLOWABLE</b>
CHEMICAL NAME	N-Trichloromethylthio-4 Cyclohexene-1, 2-Dicarboximide
CHEMICAL FAMILY	Phthalamide (Fungicide)
EPA REG. NO.	19713-161
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 <sup>3</sup>	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>	Negligible
<u>Vapor Density</u>	N/A	<u>Solubility in Water</u>	Disperses
<u>pH</u>	5.5-6.5	<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/m <sup>3</sup>
N.F.P.A. (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)	Health: 3, Fire: 0, Reactivity: 0
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. 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 product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

## 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	Rubber impervious
Eye Protection	Chemical goggles
Other	Coveralls, long-sleeved shirt, rubber boots

## 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

**CALIFORNIA PROP 65 STATUS:** Listed

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Date Prepared: 5-18-04