

Material Safety Data Sheet

Effective Date: 10-DEC-2000
Product: CAPTAN MOLY SEED PROTECTANT

I. IDENTIFICATION

Chemical Name: NOT APPLICABLE, FORMULATED MIXTURE.
Chemical Family: AGRICULTURAL FUNGICIDES.
Formula: NOT APPLICABLE, FORMULATED MIXTURE.
Synonyms: NONE
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.
EPA Number: 19713-261-5905

II. PHYSICAL DATA

Boiling Point: NOT APPLICABLE
Freezing Point: NOT APPLICABLE
Spec Gravity: NOT DETERMINED
Vapor Pressure: NOT APPLICABLE
Vapor Density: NOT APPLICABLE
Solubility: 10 - 11%
Volatiles: <0.5%
Evaporation: NOT APPLICABLE
Melting Point: NOT DETERMINED
Appearance: WHITE TO GRAY COLORED POWDER.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
CAPTAN	00133-06-2	48.90	5 MG/M3/8 H	SKIN, EYE & THROAT IRRITANT
RELATED DERIVATIVES		1.10	5 MG/M3/8 H	SKIN, EYE & THROAT IRRITANT
SODIUM MOLYBDATE	07631-95-0	10.00	10 MG/M3	NUISANCE DUST
GRAPHITE	07782-42-5	15.00	2 MG/M3	NUISANCE DUST
OTHER INGREDIENTS, NOT LISTED		25.00	19 MG/M3	NUISANCE DUST

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >100 DEGREES C
Autoignition Temp: NOT APPLICABLE
Flammable Limit: NOT APPLICABLE
Extinguishing Media: WATER SPRAY, FOAM, DRY CHEMICAL AND CARBON DIOXIDE.

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Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL FIREFIGHTING PROTECTIVE EQUIPMENT. FUMES
MAY BE HAZARDOUS - AVOID BREATHING SMOKE OR
MIST. CONTAIN AND ISOLATE RUNOFF MATERIAL.

Fire and Expl Hazard: MAY GENERATE TOXIC FUMES UNDER FIRE
CONDITIONS. SOME OF THESE MATERIALS MAY BURN.
BUT WILL NOT IGNITE READILY.

V. HEALTH HAZARD

Carcinogen Information: NCI CARCINOGENESIS BIOASSAY INDICATES POSITIVE
RESULTS (MICE) FOR CAPTAN.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: ACUTE ORAL LD50 (RAT) = 9 G/KG, (PRACTICALLY
NON-TOXIC)
Skin Absorption: NON-TOXIC.
Inhalation: MAY CAUSE IRRITATION TO NOSE AND THROAT. ACUTE
INHALATION LC50 (MICE) = 5,000 MG/KG.
Skin contact: MAY CAUSE ALLERGIC SKIN REACTION.
Eye Contact: CORROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE.
Chronic Effects: SKIN, EYE, AND THROAT IRRITATION, RASHES AND
INFLAMMATION OF SKIN.
Other Hazard: NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: CONTACT A PHYSICIAN OR POISON CONTROL CENTER
BEFORE INDUCING VOMITING. GIVE MILK OR WATER TO
DRINK AND INDUCE VOMITING BY TOUCHING BACK OF
THROAT WITH FINGER.
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF
IRRITATION DEVELOPS, CONSULT A PHYSICIAN.
LAUNDER CLOTHING BEFORE REUSE.
Inhalation: MOVE TO FRESH AIR IF IRRITATION IS NOTED.
CONSULT A PHYSICIAN IF IRRITATION PERSISTS.
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING
EYELIDS OPEN. IF IRRITATION DEVELOPS,
IMMEDIATELY CONSULT A PHYSICIAN.
Notes to Physician: IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT
SHOULD BE DIRECTED TOWARD CONTROL OF THE
SYMPTOMS AND THE CLINICAL CONDITION OF THE
PATIENT.

VI. REACTIVITY

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Stability: Stable
Conditions to Avoid: EXTREMES OF PH AND TEMPERATURES GREATER THAN 100
DEGREES C.
Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: ALKALINE MATERIALS AND SULPHUR.
Hazardous Combustion: SULPHUR OXIDES, TOXIC CHLORINE COMPOUNDS, AND
HYDROGEN CHLORIDE UNDER FIRE CONDITIONS.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: SWEEP UP MATERIAL AND PLACE IN SUITABLE
CONTAINERS FOR PROPER DISPOSAL. WASH THE
CONTAMINATED AREA WITH DETERGENT AND WATER,
CONTAIN AND ABSORB. PLACE THIS MATERIAL IN THE
SAME CONTAINER AS SPILL MATERIAL. DO NOT
CONTAMINATE WATER SUPPLIES.
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO
FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE
RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: NIOSH/MSHA APPROVED DUST/MIST PESTICIDE
RESPIRATOR (APPROVAL NUMBER PREFIX NUMBER TC-
21C)
Ventilation: LOCAL EXHAUST SUFFICIENT.
Gloves: IMPERVIOUS
Eyes: CHEMICAL WORKERS GOGGLES.
Other: EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS
APRON AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE
WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED
OR CONSUMED BY HUMANS OR ANIMALS. DO NOT
CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR
PONDS. DO NOT MIX THIS PRODUCT WITH MATERIAL
CONTAINING SULPHUR.
Other precaution: A) RCRA HAZARDOUS WASTE NUMBER: NOT LISTED
B) SARA TITLE III, SECTION 313: CAPTAN (50%)
C) SARA THRESHOLD PLANNING QUANTITY: NOT LISTED
D) CERCLA REPORTABLE QUANTITY: 20 LB.
E) CALIFORNIA PROPOSITION 65: 01/01/90 -

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CARCINOGEN
F) 49 CFR 172.101, APPENDIX A: HAZARDOUS
SUBSTANCE

X. SHIPPING INFORMATION

Shipping name: NOT REGULATED IN CONTAINERS LESS THAN 20 LBS.
Hazard Class: NONE
Identification No: NONE
Labels Required: NONE
Placarding: NONE REQUIRED
Freight Class: FUNGICIDES, N.O.I., OTHER THAN POISON(NMFC ITEM
102120, CLASS 60)

Chemical Name Equivalent R.Q.

CAPTAN 10 LB./(4.54 KG)

TRANSPORTATION NOTE: REGULATED BY DOT IN SINGLE CONTAINERS OF 20 POUNDS OR MORE.

USE DESCRIPTION BELOW:

RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (50% CAPTAN), 9, UN 3077, PG III "ERG # 171"

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 0 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y Delayed (Chronic) Health: Y
Sudden Release of pressure: N Fire: N
Reactive: N

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