

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:

ALBAUGH, INC.
Ankeny, IA 50021

EMERGENCY TELEPHONE NUMBERS:

(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME : CAPTAN 80 WDG
CHEMICAL NAME : Captan
(N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide)
CHEMICAL FAMILY : Fungicide
PRODUCT CODE : EPA Reg. No 42750-231

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Captan & related derivatives	80.0	133-06-2	5.0 mg/m ³	5.0 mg/m ³

SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

HEALTH HAZARDS: Severe eye irritant.

PHYSICAL HAZARDS: May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS: Captan is toxic to aquatic organisms.

SECTION 4 - FIRST AID MEASURES

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. Call a poison control center or doctor for treatment advice.

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.

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 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. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

HOT LINE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24 hour emergency assistance involving a exposure or transport accident call CHEMTREC 1-800-424-9300.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT (method): Will not flash

FLAMMABLE LIMITS (LFL-UFL): Unknown

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating and toxic gases. Dust could potentially form explosive mixture in air. Avoid dust formation.

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to run off.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece.

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, hydrogen cyanide, Oxides of nitrogen, carbon monoxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Vacuum or sweep up material and place in a container for reuse or disposal.

LARGE SPILL: Avoid creating dust cloud. Vacuum or sweep up material and place in a container for reuse or disposal. Reduce airborne dust and prevent scattering by moistening with water. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water.

Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

STORAGE: Store in cool, dry well ventilated area. Store in original container. Do not expose water soluble packets to water or high moisture conditions. Keep away from food, feed and drinking water.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm): Refer to Section 3.

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT: All mixers, loaders, applicators, and other handlers (including handlers participating in seeding and transplanting as part of root-dip or greenhouse-soil treatments) must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves made of any waterproof material (except applicators driving motorized equipment) such as barrier laminate, butyl rubber, natural rubber, neoprene rubber, or nitrile rubber > 14 mils
- Chemical-resistant apron when participating in dip treatments
- In addition, a NIOSH-approved respirator with any N, R, P, or HE filter must be worn by all handlers except (1) applicators driving motorized equipment, and (2) mixers/loaders/applicators participating in backpack, low-pressure hand-wand/handgun, and dip treatments, and (3) mixers/loaders participating in aerial applications. Mixers/loaders participating in aerial application operations must wear an air-purifying NIOSH-approved respirator with any N100, R100, or P100 filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Off-white to light brown granules
ODOR: Mild pungent odor
BULK DENSITY: 0.5 - 0.6 g/ml
pH: 5.0 - 6.0
WATER SOLUBILITY: Dispersible

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable, however may decompose if heated.
CONDITIONS TO AVOID: Avoid temperatures above (115°F, 46°C) and high moisture.
INCOMPATIBILITY WITH OTHER MATERIALS: Acidic and oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen and carbon.
HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	-	> 2,000 mg/Kg
Dermal LD ₅₀ (rat)	-	> 5,000 mg/Kg
Inhalation LC ₅₀ (rat)	-	> 0.9 mg/L (4 hour)
Eye Irritation (rabbit)	-	Severe, corrosive
Skin Irritation (rabbit)	-	Moderate
Sensitization (guinea pig)	-	Potential sensitizer

CARCINOGEN STATUS:

OSHA - No
 NTP - No
 IARC - Group 3

MUTAGENIC DATA: Preponderance of evidence indicates that captan is non-mutagenic

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

FISH TOXICITY: (technical)

96 hour LC₅₀, Rainbow trout – unknown

96 hour LC₅₀, Bluegill – 0.07 ug/L

AVIAN TOXICITY: (technical)

Oral LD₅₀, Bobwhite quail – > 2,000 mg/Kg

Oral LD₅₀, Mallard duck - > 2,000/Kg

BEE TOXICITY: (technical) Non-toxic

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

WASTES: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: (>12.5 lbs) UN 3077, Environmentally Hazardous Substance, Solid, N.O.S., 9, PG III, RQ (Captan 80%)

DOT HAZARD CLASS: 9

UN NUMBER: 3077

DOT PACKING GROUP: III

DOT PRIMARY/SECONDARY LABEL: Class 9 (>12.5 lbs)

DOT PRIMARY/SECONDARY PLACARD: Class 9 (> 12.5 lbs)

DOT EMERGENCY RESPONSE GUIDE #: 171

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: 10 lbs

SARA TITLE III STATUS:

311/312 Hazard Categories –	Immediate and Delayed Health
313 Toxic Chemicals –	Yes (captan)

CALIFORNIA PROP 65: Listed

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH	3
	FLAMMABILITY	0
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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REVISED DATE: August, 2012

REFERENCE: Revised Section 4 and Section 13 to match EPA approved label