

DREXEL CAPTAN 50W FUNGICIDE

SECTION 1: MATERIAL IDENTIFICATION

Product Name: Drexel Captan 50W Fungicide

EPA Reg. No.: 19713-646 **Product Usage:** Fungicide

Manufacturer:Drexel Chemical CompanyAddress:1700 Channel Avenue

PO Box 13327

Memphis, Tennessee, 38113-0327, USA

901-774-4370

Emergency TelephoneCHEMTREC800-424-9300Numbers:DREXEL CHEMICAL COMPANY901-774-4370

This product is an EPA FIFRA registered pesticide. Some of the classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by EPA for a registered pesticide. Refer to SECTION 15: REGULATORY INFORMATION for explanation.

SECTION 2: HAZARD(S) IDENTIFICATION

(As defined by the OSHA Hazard Communication Standard, 29)

Signal Word:

DANGER



Classifications:

Hazard Class:Toxicity Study:
Acute Toxicity, InhalationCategory:
Category 3Serious eye damage / irritationCategory 1Skin sensitizerCategory 1CarcinogenicityCategory 2

Hazard to Aquatic Environment, short term (Acute) Category 1

Hazard Statements: <u>H Code:</u> <u>Statement:</u>

H331 Toxic if inhaled

H318 Causes serious eye damage
 H317 May cause an allergic reaction
 H351 Suspected of causing cancer
 H400 Very toxic to aquatic life

HNOC (Hazard not otherwise classified): None available / Not applicable

Precautionary Statements:

Prevention: If medical advice is needed, have product container or label at hand.

Keep out of reach of children.
Obtain special instructions before use.

Read label before use. Keep container tightly closed. Keep only in original container.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Do not get in eyes, on skin, or on clothing.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.



Avoid release into the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

In case of inadequate ventilation, wear respiratory protection.

Response:

If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do so. Continue rinsing. Get immediate medical advice/attention.

If Swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Treat symptomatically.

If Inhaled: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER or

doctor if you feel unwell.

If on Skin or Clothing: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If exposed or concerned: None available, get medical attention.

Material released or spilled: Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in a

cool, dry, and secure area designated specifically for pesticides and away from heat sources.

Always use oldest stock first.

Disposal: Dispose of contents/container in accordance with your local or area regulatory authorities.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Active Ingredient:	Synonym:	CAS No.:	EC No.:	RTECS:	<u>% By Wt.:</u>
Captan	Captan	133-06-2	205-087-0	GW5075000	50.0 %
Inert Ingredients:	N/A	N/A	N/A	N/A	50.0 %

SECTION 4: FIRST-AID MEASURES

Have the product container, label and / or Safety Data Sheets (SDS) with you when calling a poison control center or doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.

Eye Contact: 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 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.

Skin/Clothing Contact: 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 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.

Indication of Medical Attention and Special Treatment Needed:

None / Treat symptomatically.

If medical advice is needed, have product container or label at hand.

Note to Physician / Important Symptoms/ Effects, Acute and

There is no specific antidote. Treat symptomatically. Probable mucosal damage may

contradict the use of gastric lavage.

or Delayed:



SECTION 5: FIRE FIGHTING MEASURES

Fire Fighting Media: Dry chemical, CO₂, Foam, Water mist / fog. Do not use water jet, as this may spread burning

material. Minimize the use of water to avoid environmental contamination. Contain all

runoff.

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the

fire from upwind at a safe distance to avoid hazardous vapors or decomposition products. Cool closed containers exposed to fire with water spray, if possible. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for

guidance on disposal.

Special Protective Equipment

for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the

relevant sections.

Specific Fire Hazards: Thermal decomposition during a fire can produce toxic fumes and irritating gases.

Flammability classification (OSHA 29 CFR 1910.1200): N/Av

Flash point: N/Av

Lower flammable limit (% by volume): N/Av Upper flammable limit (% by volume): N/Av

Hazardous Combustion

Products:

Carbon oxides, sulphur oxides, nitrogen oxides, halogenated compounds, irritating fumes

and smoke.

National Fire Protection Association:

NFPA:	Health	Fire	Reactivity
300	3	0	0
Ratings:	4-Extreme 3-High	n 2-Moderate	1-Slight 0-Insignificant

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to SECTION 7: HANDLING AND STORAGE, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

Environmental Precautions:

Do not flush into surface water or sanitary sewer system. Prevent from entering soil, ditches, sewers, waterways and/or groundwater. Refer to SECTION 12: ECOLOGICAL INFORMATION.

Steps to be taken if Material is Released or Spilled:

Control the spill at its source.

Small spills: Stop the

Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Should be damped-off and pumped into containers. Soak up remainder with absorbent material and dispose of in accordance with local regulations. Prevent entry into waterways, sewers, basements or confined areas.



Large spills:

Stop the flow of material, if this is without risk. Apply suitable absorbent and sweep up. Collect in suitable and properly labeled containers. Should be damped-off and pumped into containers. Soak up remainder with absorbent material and dispose of in accordance with local regulations. Prevent entry into waterways, sewers, basements or confined areas. Contact Drexel Chemical Company for clean-up assistance. Refer to SECTION 13: DISPOSAL CONSIDERATIONS, for additional information. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7: HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

Handling: General Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not

swallow. Avoid breathing dust. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Use with adequate ventilation. Wear chemical protective equipment when handling. Wear long-sleeved shirt, long pants and shoes with socks when handling. Keep away from heat, sparks and flame. Do not reuse

this container. Refer to SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION.

Storage: Store in a cool, dry, ventilated and secure area designated specifically for pesticides and away from heat

sources. Keep in original containers and keep containers closed when not in use. Do not store in excessive heat. Keep away from unauthorized access. Do not store near children, food, foodstuffs, drugs or potable

water supplies. Always use oldest stock first.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Components:	OSHA PEL	ACGIH TLV	OTHER
Captan	N/A	5 mg/m ³	N/A

THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Engineering Controls:

Ventilation: Investigate engineering techniques to reduce exposures. When handling this product proper

ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility / station and safety shower. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for

some operations.

Personal Protection:

Eye/Face Protection: Eye contact should be avoided through the use of chemical safety glasses, goggles or a face shield

selected in regard to exposure potential. Wear chemical splash goggles to prevent vapors or mists from entering the eyes. Where there is potential for eye contact have eye flushing equipment

available. Safety glasses with side-shields.

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work

area; wash hands and face thoroughly with soap and water before smoking or eating. Avoid

getting wash water in eyes.

Hand Protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials

include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Viton, Polyvinyl chloride ("PVC" or "vinyl"). The selection of gloves for a particular application and duration of use in the workplace should also be taken into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/ puncture

protection, dexterity, thermal protection), potential body reactions to gloves materials, as well as

the instructions / specs provided by the supplier of gloves.



Skin Protection: Use protective clothing chemically resistant to this material. Selection of specific items such as

face shield, boots, apron, or full body suit will depend on the task. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and

disposed of properly.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit

requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PropertyReported ValuePhysical StateSolid, PowderAppearance / ColorLight BrownOdorMild odor

Odor threshold No data available

pH 5.0 – 8.0 (5% emulsion) 22°C

Melting point No data available No data available Freezing point No data available **Boiling point** No data available Flash point **Evaporation rate** No data available Flammability No data available Lower flammability/explosive limits (LEL) No data available No data available Upper flammability/explosive limits (UEL) No data available Vapor pressure Vapor density No data available Relative density 30-35 lbs. /ft3. Solubility in water Disperses in water Solubility in organic solvents No data available Partition coefficient (n-octanol/water) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available **Explosive properties** No data available No data available Oxidizing properties **Dissociation Constant** No data available

Property Note: The physical properties and reported values are typical values based on materials tested but may vary from sample to sample. Thus, typical values should not be construed as a guaranteed analysis of any specific lot/ batch or specification items.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:Thermally stable at typical use temperatures and in closed containers.

No data available

Chemical Stability: Stable under recommended storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid heat of open flame. Avoid high temperatures above 130°F (54.4°C).

Incompatible Materials: Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

% Volatiles



Hazardous Decomposition Products: Decomposition products can include and are not limited to: Carbon oxides,

sulphur oxides, nitrogen oxides and halogenated compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Captan The information presented below is for the active ingredient.

Potential routes of exposure/potential health effects: Skin contact, Eye contact, Ingestion, Inhalation

Eye Irritation: (Rabbit): Category II, "Positive" conjunctival irritation clearing in 8-21 days.

Skin Irritation:(Rabbit):Slightly-irritatingSkin Sensitization:(Guinea Pig):Non-sensitizer

Chronic Toxicity: No data available

Carcinogenicity: EPA EPA lists as likely carcinogenic at high-level exposures but not likely at dose levels that do

not cause cytotoxicity and regenerative cell hyperplasia. EPA has classified Captan as a

Group B2, probable human carcinogen.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by NTP.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by OHSA.

Mutagenicity: No data available

Teratogenicity: No data available

Reproductive Toxicity: Not likely to cause reproductive effects in humans.

Developmental Toxicity: No data available

Specific target organ toxicity- single exposure: No data available / Not classified

Specific target organ toxicity- repeated exposure: No data available / Not classified

Other Hazards Effects: No data available

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Captan The information presented below is for the active ingredient. This product is acutely toxic to freshwater fish,

practically non-toxic to birds and non-toxic to bees when used as directed.

ECO-ACUTE TOXICITY

Aquatic Toxicity: Rainbow Trout, LC₅₀ 96 hour 73.2 μg/L

 $\begin{array}{lll} \mbox{Bluegill Sunfish, LC}_{50} & 96 \mbox{ hour} & 72 \mbox{ } \mu \mbox{g/L} \\ \mbox{Daphnia magna, LC}_{50} & 48 \mbox{ hour} & 7 - 10 \mbox{ } m \mbox{g/L} \\ \end{array}$

Arthropod Toxicity: Bees, Acute LD₅₀ 46.26 μg/bee

Bird Toxicity: Mallard Duck, LD₅₀ 2,000 mg/kg

Bobwhite Quail, LD₅₀ >2,150 mg/kg



Algae, LC₅₀ 96 hour No data available

Soil Organism Toxicity: Earthworm acute toxicity No data available

Persistence and degradability: Dissipates rapidly in the environment, is slightly-to-relatively immobile in soils.

Bioaccumulation: Dissipates rapidly in the environment. **Mobility in soil:** Slightly-to-relatively immobile in soils.

Other adverse effects: Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

SECTION 13: DISPOSAL CONSIDERATIONS

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

SECTION 14: TRANSPORT INFORMATION

DOT: Packages < 20 lbs. Not Regulated

Packages ≥ 20 lbs. UN3077, Environmentally hazardous substance, solid, n.o.s., (Captan), 9, PG-III, RQ 10

lbs.

IMDG: UN3077, Environmentally hazardous substance, solid, n.o.s., (Captan), 9, PG-III, RQ 10 lbs., Marine pollutant

ICOA / IATA: UN3077, Environmentally hazardous substance, solid, n.o.s., (Captan), 9, PG-III, RQ 10 lbs.

UN Identification No.: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s., (Captan)

Hazard Class: 9

Packing Group: III
Reportable Quantity: 10 Lbs.

Environmental Hazard: Marine Pollutant



Freight Description: Agricultural Fungicide, Solid, N.O.S.

ERG Guide No.: 171

Transport Information Note: Cannot be transported with Class 8 or 5.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication

Standard:

This product contains hazardous components as defined under the criteria of the Federal OSHA Hazardous Communication Standard 29 CFR 1910.1200.

Pesticide Registration: This product is a pesticide registered by the Environmental Protection Agency (EPA) and is

subject to certain FIFRA labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Drexel Captan 50 W Fungicide



EPA Reg. No.: 19713-646 **FIFRA Label Signal Word:** WARNING

FIFRA Label Information: KEEP OUT OF REACH OF CHILDREN

FIFRA Label Information: Hazards to Humans and Domestic Animals

WARNING: Causes substantial but temporary eye damage. Do not get in eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wear goggles or face shield when handling. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing

and wash before reuse.

EPCRA SARA Title III Classification:

Section 302: Extremely Hazardous Substance This material is not known to contain any

Notification: Extremely Hazardous Substances.

Sections 311 and 312: Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

Fire Hazard: No Reactive Hazard: No

Sudden Release of Pressure Hazard: No

Section 313 Toxic Release Inventory (TRI): Captan (CAS No.: 133-06-2), 50.0%

CERCLA Reportable Quantity (RQ): Captan (CAS No.: 133-06-2), 10 lbs.

SARA 304 Reportable Quantity (RQ): Not listed / Not available

RCRA Hazardous Waste Classification (40 CFR 261): Not listed / Not available

US EPA Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are

exempt from TSCA Inventory requirements under 40 CFR 720.30.

California Proposition 65 (Safe Drinking Water and

Toxic Enforcement Act of 1986):

Captan Listed as causing: Cancer

Listing date: 01/01/1990 Listing basis: AB-USEPA

This product contains chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

SECTION 16: OTHER INFORMATION

Date Issued: December 10, 2020 Date Supersedes: June 12, 2018 Revision: 0

For all non-emergency questions about 1700 Channel Avenue Phone: 901-774-4370 **this product, please contact:** PO Box 13327 Fax: 901-774-4666

Memphis, Tennessee 38113-0327, USA Website: www.drexchem.com

Drexel Chemical Company recommends that each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.