

HOME & GARDEN CAPTAN FUNGICIDE

MATERIAL SAFETY DATA SHEET

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Manufacturer's Name & Address

Southern Agricultural Insecticides, Inc.
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I. NOMENCLATURE

Product Name: HOME & GARDEN CAPTAN FUNGICIDE EPA Reg. No.476-761-829
Chemical Name: N-((trichloromethyl)-thio)-4-cyclohexene-1,2-dicarboximide
Synonyms: Common Name: Captan; Orthocide 50 Wettable
Chemical Family: dicarboximide fungicide

II. INGREDIENTS

Captan	47.3%	CAS No.133-06-2	TLV 5 mg/m ³ (8 hr)
Related compounds	2.7%		
Inert ingredients	50.0%		

Acute oral LD₅₀ rats > 10 g/kg Animals receiving doses of 1.5 to 10 g/kg showed only transient diarrhea.

Captan has a low order of chronic toxicity in that rodents tolerate large doses of the material. In a study by the National Cancer Institute, Captan was not carcinogenic in the rat. In two lifetime feeding studies, 6000 to 16000 ppm technical captan in the diet induced both benign and malignant duodenal tumors in mice.

Captan has been extensively studied in various mutagen testing systems. It appears to be positive in bacterial, fungal and cell studies. There is no good evidence that Captan is mutagenic to mammals.

Numerous studies (in mice, rats, dogs, rabbits, and monkeys) have been conducted to determine whether captan causes birth defects. These studies have produced no good evidence that captan causes birth defects in mammals. Although captan has not been associated with cancer or other chronic toxicity in humans, because of the results discussed above, this product should be handled as outlined in the MSDS and on the label.

III. PHYSICAL PROPERTIES

Boiling Point: Decomposes	Specific Gravity: 42-46 lbs/ft ³
Vapor Pressure: (mmHg) n/a	Percent Volatile: (by volume) non-volatile
Vapor Density: (air=1) n/a	Evaporation Rate: (=1) n/a
Solubility In Water: Water wettable powder	
Appearance/Odor: Slightly pungent, beige powder.	

IV. FIRE AND EXPLOSION DATA

Flash Point: n/a **Flammable Limits:** Lel n/a Uel n/a

Extinguishing Media: CO₂, dry chemical, foam, water spray.

Special Fire Fighting Procedures: Fight fire downwind. Smoke from fires involving this material may present unusual hazards. Avoid breathing smoke and mists. Avoid contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self contained breathing equipment. Contain and isolate runoff and debris for proper disposal.

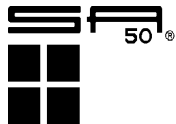
V. FIRST AID

First Aid for EYE Exposure: Corrosive to eyes: Wash eyes immediately with fresh water for at least 15 minutes and get medical attention.

First Aid for SKIN Exposure: May cause skin irritation and allergic skin reactions. Wash skin thoroughly with soap and water. Launder contaminated clothing. If a skin rash develops see a physician.

First Aid for INHALATION: If respiratory discomfort or irritation occur, move the person to fresh air. See a doctor if discomfort or irritation continues.

First aid if SWALLOWED: If swallowed, give a large amount of water to drink, make person vomit, and call a doctor.



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VI. REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: High temperatures.

Materials to Avoid: Strong acids and bases.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur and may produce toxic chlorine compounds; incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

VII. SPILL OR LEAK PROTECTION

Steps To Be Taken If Spilled: Clean up spills immediately, observing precautions as given in sections VIII and IX and product label. Vacuum (preferred) or sweep up material and place in disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, Kitty Litter, clay, rags or other absorbent material and place in disposable container.

Waste Disposal: Spilled product that can not be used according to label instructions should be disposed of in a manner consistent with local, State, and Federal procedures.

VIII. SPECIAL PROTECTION

Respiratory: Type/Conditions: Do not breathe dust. Wear approved respiratory protection such as a particulate filter or dust mask or an air-supplying respirator unless ventilation equipment is adequate.

Ventilation: Use only in well ventilated areas.

Gloves: Yes: Clean neoprene if exposure is repeated and/or prolonged.

Eye Protection: glasses with eye shields. Where risk of exposure is high wear chemical goggles.

Other protective equipment: Wear freshly laundered work clothing. Washing facilities for eyes and skin should be nearby.

IX. SPECIAL PRECAUTIONS

Handling Precautions: Avoid damage to containers. Avoid contact with eyes, skin, or clothing. Do not wear contaminated clothing.

Storing Precautions: Do not place leaking or damaged containers in storage. Store in a cool dry place. Do not contaminate feed or food.

Other Precautions: KEEP OUT OF REACH OF CHILDREN. Toxic to fish. Keep out of lakes, ponds, and streams. Do not contaminate water by cleaning of equipment or disposal of waste.

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.

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