

Common Name: **CAPTAN**

Synonyms: Captane; Orthocide; Vanicide

CAS No: 133-06-2

 Molecular Formula: $C_9H_8Cl_3NO_2S$

RTK Substance No: 0339

Description: White, odorless, crystalline solid when pure or cream to yellow powder with a strong odor (technical grade)

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 0 - Fire 1 - Reactivity DOT#: UN 3077 ERG Guide #: 171 Hazard Class: 9 (miscellaneous/ hazardous material)	Pure Captan does not burn, however it is often dissolved in a liquid carrier which may be flammable or combustible. Use dry chemical, CO ₂ , water spray or foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Sulfur Oxides, Nitrogen Oxides, Hydrogen Chloride and Phosgene.</i> Use water spray to keep fire-exposed containers cool.	Captan is not compatible with STRONG ALKALIES (such as LIME); TETRAETHYL PYROPHOSPHATE; OIL SPRAYS; and PARATHION. Captan may react with WATER to form <i>Hydrogen Chloride</i> gas. Captan is corrosive to METALS in the presence of MOISTURE.

SPILL/LEAKS
Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up.

Absorb liquids in vermiculite, dry sand, earth, or a similar material and deposit in sealed containers.

May be hazardous to aquatic and soil organisms.

PHYSICAL PROPERTIES

Odor Threshold:	Odorless (when pure)
Vapor Pressure:	0 mm Hg at 68°F (20°C)
Specific Gravity:	1.74 (water = 1)
Water Solubility:	Very slightly soluble
Boiling Point:	Decomposes
Melting Point:	352°F (178°C)
Molecular Weight:	300.6

EXPOSURE LIMITS
NIOSH: 5 mg/m³, 10-hr TWA

ACGIH: 5 mg/m³, 8-hr TWA (as the inhalable fraction)

PROTECTIVE EQUIPMENT

Gloves:	Rubber or Nitrile
Coveralls:	DuPont Tyvek® or equivalent
Respirator:	>5 mg/m ³ - Full facepiece APR with Organic vapor cartridge and High efficiency pre-filters >50 mg/m ³ - Supplied air

HEALTH EFFECTS
Eyes: Irritation

Skin: Irritation, skin rash and itching

Inhalation: Nose and throat irritation
Headache, dizziness, nausea and vomiting

FIRST AID AND DECONTAMINATION
Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Remove contaminated clothing and wash contaminated skin with large amounts of soap and water.

Transfer to a medical facility.