

# Carbendazim 98%TC

## Company Information

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## Product Identification

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### **【Product Name】**

1H-Benzimidazole-2-carbamic acid methyl ester

### **【Synonyms】**

1H-Benzimidazol-2-ylcarbamic acid methyl ester

Carbendazol

Methyl (1H-Benzimidazol-2-yl)carbamate

Methyl benzimidazole-2-ylcarbamate

### **【CAS】**

[10605-21-7](#)

### **【Formula】**

C<sub>9</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>

### **【Molecular Weight】**

191.19

### **【EINECS】**

234-232-0

### **【RTECS】**

DD6500000

### **【RTECS Class】**

Agricultural Chemical and Pesticide; Mutagen; Reproductive Effector

**[Merck]**

12,1836

**[Beilstein/Gmelin]**

649044

**[Beilstein Reference]**

5-25-10-00376

**[EC Index Number]**

613-048-00-8

**[EC Class]**

Mutagenic Category 3

## Physical and Chemical Properties

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**[Appearance]**

Light gray or beige powder.

**[Solubility in water]**

8 mg/L

**[Melting Point]**

302

**[Boiling Point]**

409

**[Density]**

1.45 g/cm<sup>3</sup> (20 C)

**[pKa/pKb]**

4.48(at 25°C) (pKa)

**[Partition Coefficient]**

1.37

## **【Usage】**

Fungicide.

## **First Aid Measures**

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### **【Ingestion】**

DO NOT INDUCE VOMITING. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. Be prepared to transport the victim to a hospital if advised by a physician.

### **【Inhalation】**

IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospital. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used.

### **【Skin】**

IMMEDIATELY flood affected skin with water while removing and isolating all contaminated clothing. Gently wash all affected skin areas thoroughly with soap and water. If symptoms such as redness or irritation develop, IMMEDIATELY call a physician and be prepared to transport the victim to a hospital for treatment.

### **【Eyes】**

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. If symptoms (such as redness or irritation) develop, immediately transport the victim to a hospital.

## **Handling and Storage**

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### **【Storage】**

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

### **【Handling】**

All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.

## Hazards Identification

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### **[Eyes]**

Redness

### **[Hazards]**

this chemical is probably nonflammable.

## Exposure Controls/Personal Protection

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### **[Personal Protection]**

Protective gloves. Safety goggles.

### **[Respirators]**

Wear a NIOSH-approved half face respirator equipped with an organic vapor/acid gas cartridge (specific for organic vapors, HCl, acid gas and SO<sub>2</sub>) with a dust/mist filter.

### **[Exposure Effects]**

Animal tests show that this substance possibly causes toxic effects on human reproduction.

### **[Poison Class]**

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## Fire Fighting Measures

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### **[Fire Fighting]**

Fires involving this material can be controlled with a dry chemical, carbon dioxide or Halon extinguisher.

## Accidental Release Measures

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### **[Small spills/leaks]**

If you spill this chemical, you should dampen the solid spill material with water, then transfer the dampened material to a suitable container. Use absorbent paper dampened

with water to pick up any remaining material. Seal your contaminated clothing and the absorbent paper in a vapor-tight plastic bag for eventual disposal. Wash all contaminated surfaces with a soap and water solution. Do not reenter the contaminated area until the Safety Officer (or other responsible person) has verified that the area has been properly cleaned.

## Stability and Reactivity

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### **[Incompatibilities]**

Incompatible with strong acids and bases, and especially

### **[Stability]**

No data.