

Inhalation: May cause irritation to the respiratory system, sneezing and coughing due to decomposition product $\text{Ca}(\text{OH})_2$.
Ingestion: Decomposition product $\text{Ca}(\text{OH})_2$ may cause burning sensation in mouth, chest and stomach. May cause irritation of the mouth, pain in swallowing and stomach cramps.
Skin: May cause irritation on contact with moist skin.
Eye: May cause irritation.

Chronic Effects: Inhalation: Prolonged or heavy exposure may cause chemical bronchitis. No other chronic health effects recorded.

Medical Conditions Generally Aggravated by Exposure: Pre-existing respiratory disorders.

Carcinogenicity: NTP: No IARC: No OSHA: No

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air; give oxygen if breathing is difficult. Seek medical attention.
INGESTION: If conscious, administer 1-2 glasses of milk or water. DO NOT induce vomiting. Seek medical attention immediately.
SKIN: Brush material off skin and wash area with soap and water. Seek medical attention.
EYE: Flush eyes with lukewarm water for at least 15 minutes and seek medical attention.

VI REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

Incompatibility (Materials to Avoid): Acids, covalent halides, halogens, boron, fluorine and water.

Hazardous Decomposition Products: $\text{Ca}(\text{OH})_2$, hydrogen and silane gas.

Hazardous Polymerization: Will not occur

VII SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Wear a self-contained breathing apparatus and full protective clothing. Isolate the area where the spill occurred, insure proper ventilation is available and that water/moisture are kept out of the area. Vacuum up the spill using a high efficiency unit and place in a container for proper disposal. Use non-sparking tools. Take care not to raise dust.

Waste Disposal Method: Dispose of in accordance with Local, State and Federal Waste Disposal Regulations.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): Wear a NIOSH-approved respirator.

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Handle in an inert gas such as argon, in a dry, controlled atmosphere. General exhaust is not recommended.

Protective Gloves: Rubber gloves

Eye Protection: Safety goggles

Other Protective Equipment: Wear protective apparel to prevent contamination of skin and clothing.

IX SPECIAL PRECAUTIONS

Precautions to Be Taken in Handling and Storage: Calcium silicide may decompose with water and moisture. Handle and store in a controlled environment and inert atmosphere such as argon gas. Wash hands and face thoroughly after handling and before meals. Store in tightly closed containers, in a cool dry place. Store under dry inert atmosphere.

Work Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Handle in a dry, controlled area. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking.

Transportation Requirements:

DOT Class: Not classified
UN Number: 1325
IMCO Class: 4.3
Other: Flammable, dangerous when wet

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. ESPI shall not be held liable for any damage resulting from handling or from contact with the above product.

Issued by: S. Dierks
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