





THATCHER COMPANY MATERIAL SAFETY DATA SHEET  
PRODUCT: CALCIUM POLYSULFIDE, 30% SOLUTION  
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**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS OR MATERIALS TO AVOID:**

Avoid contact with acids. Hydrogen sulfide gas will be generated, dangerous to inhale; explosive at critical concentrations.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Normal combustion products are carbon dioxide and water vapor, and may produce oxides of sulfur. Incomplete combustion or thermal decomposition can produce carbon monoxide, oxyhydrocarbon derivatives and sulfur derivatives, including hydrogen sulfide.

**SECTION VI - HEALTH HAZARD DATA**

**Carcinogenic Listing:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:** SKIN: Corrosive. Causes burns to skin. May produce systemic toxicity by skin absorption. EYES: Corrosive: May produce severe membrane irritation with corneal damage.

**Inhalation:** Irritating to the respiratory tract.

**Ingestion:** This material decomposes in the digestive tract to release sulfur and hydrogen sulfide. May produce symptoms of toxicity including headache, nausea, vomiting, drowsiness, amnesia, tremors, depressed respiration, convulsions, cyanosis and death, due to respiratory paralysis. Severe irritation of the digestive tract may also occur.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** SKIN: Remove contaminated clothing immediately and wash skin thoroughly with soap and water. Consult a physician if irritation occurs. EYES: Immediately flush eyes with cool water for at least 15 minutes and get immediate medical attention.

**Inhalation:** Remove person to fresh air.



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**Ingestion:** If swallowed, do not give anything but water. See a physician immediately. NOTE TO PHYSICIAN: For severe hydrogen sulfide poisoning, successful treatment has involved initial inhalation of amyl nitrite pearls for 15 to 30 seconds each minute, until 10 mls of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 mls per minute. The nitrite-induced methemoglobin is thought to bind the toxic hydro-sulfide ion.

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Avoid contact with eyes and skin. Do not take internally. Avoid breathing spray mist or hydrogen sulfide vapors. Do not heat drums with any welding equipment as explosion may occur. Do not combine with acids, will generate hydrogen sulfide.

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

DO NOT USE ACIDIC CLEANING MATERIALS. Cover spill with generous amount of absorbent such as clay loam soil. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent soap and water using a stiff broom. Pick up liquid with more absorbent and place in disposable container.

**WASTE DISPOSAL METHOD:**

Contaminated cleanup materials may be hazardous. Refer to sections IV and VIII of this MSDS sheet before handling. All contaminated materials should be placed in disposable containers and buried in an approved dumping area.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:**

Use a respirator NIOSH approved for hydrogen sulfide vapors in enclosed areas.

**VENTILATION:**

Use adequate ventilation to keep the hydrogen sulfide concentration below the exposure standard (20 ppm H<sub>2</sub>S).

**EYE PROTECTION:** Wear goggles or full mask face shield.

**SKIN PROTECTION:** Wear waterproof clothing, including gloves\* and boots, when handling material.

**OTHER PROTECTIVE EQUIPMENT:** \* Wear heavy-duty waterproof gloves not subject to easy tearing.



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**ACGIH** = American Conference of Governmental Industrial Hygienists  
**CL** = Ceiling Level  
**IARC** = International Agency for Research on Cancer: Monographs  
**OSHA** = Occupational Safety and Health Administration  
**N/A** = Not Applicable  
**NTP** = National Toxicology Program: Annual Report on Carcinogens  
**PEL** = Permissible Exposure Level (OSHA)  
**TLV** = Threshold Limit Value (ACGIH)  
**TWA** = Time Weighted Average over 8 Hours  
**STEL** = Short Term Exposure Limit (ACGIH)  
**ND** = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.