



REMOTOX™

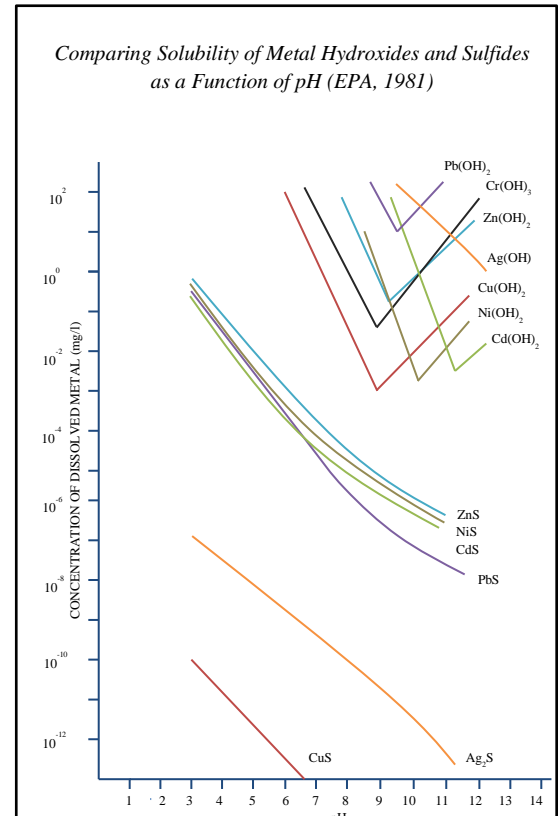
REMOTOX is a calcium polysulfide based chemistry designed to bring practical and cost saving advancements to wastewater treatment, while ensuring compliance limits are consistently met. Precipitation by REMOTOX results in the formation of sulfides with most metals and hydroxides in the case of chromium. Compared to conventional hydroxide precipitation, REMOTOX offers:

- High reactivity with heavy metal ions and very low solubility of resulting metal sulfides over a wide pH range, producing lower effluent concentrations.
- Ability to deal with complexes and most chelating agents.
- Selective metal precipitation allowing for recovery of valuable metals.
- Removal of chromates and dichromates without preliminary reduction of the chromium to the trivalent state.
- Better settling and dewatering aspects of the metal sulfide sludge.

The extent and rate of precipitation is generally a function of the pH of the system. Metal hydroxides change solubility with changes in pH. The use of REMOTOX not only provides a better stability over a broader pH range, but also gives the possibility of precipitation at low pH and selective precipitation for metal reuse.

When it comes to cost effective removal or selective recovery of heavy metals from industrial waste streams, REMOTOX has proven to be a superior precipitant. REMOTOX has several advantages over the use of alternative treatment chemicals, including:

- It is not DOT regulated.
- Dissolved calcium ions function as a coagulant aid.
- Economical (relatively low cost).
- No need to dissolve prior to use in comparison to solid material.



TYPICAL PROPERTIES

REMOTOX is an aqueous mixture of calcium polysulfide with a typical pH of 11.5. It has a specific gravity of about 1.27 and weighs 10.6 pounds per US gallon. The solution is reddish-yellow in color and may have a slight odor of rotten eggs.

PACKAGING AND HANDLING

REMOTOX is readily available in drums, totes, and bulk quantities. Product is considered stable in normal transportation. Materials of construction suitable for storing and handling the product in ambient temperature (up to 120°F) include stainless steel, polypropylene, polyethylene. Store containers out of direct sunlight. Avoid contact with acids or acidic materials, due to H₂S evolution. Handle REMOTOX in enclosed containers to avoid breathing product vapors. Avoid contact with skin and eyes. Use in a well-ventilated area. Wash thoroughly after handling. Observe all safety precautions in the Material Safety Data Sheet.

The information contained herein is based on data which is believed to be accurate. However, no warranty of merchantability, fitness for use, or any other warranty is expressed nor is it implied concerning the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes the risk for his use thereof.

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