

WATER SPECIALISTS TECHNOLOGIES LLC

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WST-P225 PRECIPITANT

WST-P225 is an organic liquid precipitant formulated for precipitating heavy metals, particularly chelated and complexed ions, in process and other wastewaters.. The precipitating reaction forms insoluble organometallic compounds with minimal sludge generation. This product contains no disulfides.

APPLICATIONS: **WST-P225** can be used wherever ionic metals in solution require precipitation and removal. It is particularly effective in breaking chelators and other compounds which complex metallic ions making them resistant to conventional hydroxide precipitation. To do your own bench-scale jar tests with **WST-P225**, ask for a free sample.

pH CONTROL: Although **WST-P225** is non-pH dependent, precipitating reagents are most effective in the range of pH 7 to 9. Since this is the general range for acceptable discharge to sewer, adjust the pH prior to adding precipitating reagent.

DOSING CRITERIA: To determine the approximate dosage of **WST-P225** required for treatment, use the following formula:

(PPM Ionic Metal) X (Gallons to be treated) X (0.09) = Milliliters of **WST-P225** required, ±10%.

NOTE: The dosage can be lowered when some of the metals are precipitated as hydroxides during pH adjustment. For example, a 1,000 gallon waste stream, after pH adjustment, containing 10 ppm Copper, 4 ppm Tin, 5 ppm Lead, and 6 ppm Nickel, has a total of 25 ppm ionic chelated or complexed metals. The dosage, using the above formula, is as follows:

$25 \times 1,000 \text{ gallons} \times (0.09) = 2,250 \text{ milliliters } \mathbf{WST-P225}.$

MEMORANDA

•Oxidizers in the waste stream, such as chlorine, peroxide, permanganate, persulfate, etc., will decrease the effective strength of Precipitating Reagents. Oxidizers should be eliminated from the wastewater via Sodium Sulfite, Bisulfite, or **CR-20**. Also remove cyanide and reduce hexavalent chromium, if present, from the waste stream before the precipitation process.

PHYSICAL PROPERTIES

- Appearance: yellow-green amber liquid
- Specific Gravity: 1.040 – 1.050
- pH: 12.0-13.0

See Material Safety Data Sheet for further information.

11/05