

PRODUCT INFORMATION

WATER SPECIALISTS TECHNOLOGIES LLC

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WST-P20 PRECIPITANT

WST-P20 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-P20** 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 you own bench-scale jar tests with **WST-P20**, ask for a free sample.

pH CONTROL: Although **WST-P20** 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-P20** required for treatment, use the following formula:

(PPM Ionic Metal) X (Gallons to be treated) X (0.04257 Equals Milliliters of **WST-P20** 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 X 1,000 gallons X (0.04257) = 1064 milliliters **WST-P20**.

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 <u>before</u> the precipitation process.
- •WST-P20 may not be compatible with your present flocculant. This can be easily determined via test. If not compatible, WST-P20 should be added to the waste stream separately.
- •In a full scale installation, **WST-P20** should be dosed by means of an electronic dosing system which includes an electrode, reagent controller and metering pump. Ask for product information on such a system.