WST PRODUCT INFORMATION

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C-2 COAGULANT

C-2 is a liquid inorganic coagulant with a cationic charge. It is formulated to promote the coagulation of precipitated particles and assist in their rapid settling during wastewater treatment.

In industrial wastewater treatment, particles suspended in wastewaters are typically stabilized by negative electric charges on their surfaces causing them to repel each other. As a cationic coagulant with positive electrical charges, **C-2** destabilizes or neutralizes the negative electrical charges of the suspended particles in solution (colloids). In doing so, the particles agglomerate, or clump, into flocs. **C-2** also promotes the flocculation process in which the flocs formed gather together into larger agglomerates or clumps, and settle rapidly.

DOSAGE
C-2 is dosed at full strength. To determine the optimum dosage perform the bench-scale jar tests as described on the back side of this bulletin. The optimum pH conditions for coagulation are generally in the range of 5-7.

C-2 should be dosed at a point that ensures complete mixing using a corrosion resistant positive displacement pump. Rapid mixing with the wastewater is required to destroy the stability in the colloidal system. For particles to agglomerate they must collide and high energy mixing, which distributes the **C-2** throughout the liquid and promotes rapid collision, is most effective. Do not overdose **C-2-** as this can result in a complete electric charge reversal and restabilize the colloid complex.

STORAGE & HANDLING:
Store **C-2** in a closed plastic drum until ready to use. Protect from frost and do not store for long periods of time at temperatures over 85°F. If freezing occurs, the product may be used after being thawed and thoroughly mixed.
When handling **C-2** avoid contact with skin, eyes or clothing. Wear protective eye goggles or glasses, gloves and clothing. Avoid breathing mist.

See the Material Data Safety Sheet for further information.

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