ESSENTIAL CHEMICAL

# Poly-floc 301 Coagulant Clarifying Chemical

**Category:** Water Treatment chemical

**Type:** Water treatment aid formula

**Product Description:**
Poly-floc 301 is a widely used as a coagulant aid in wastewater treatment and water clarification requirements. It works by causing suspended particles in wastewater to clump together (flocculate), making them easier to remove through settling or filtration. This process helps clarify wastewater and remove impurities like turbidity, color, and suspended solids.
Features & Benefits:
Coagulation and Flocculation:

- Poly-floc 301 acts as a coagulant by destabilizing suspended particles, causing them to clump together.
- These clumps, or flocs, are larger and heavier, making them easier to remove from the water.
- Treats most wastewater treatment applications:

**Applications:**

- Municipal wastewater treatment:

  It's used to remove suspended solids, turbidity, and color, improving the quality of treated wastewater.
- Industrial wastewater treatment:

  It can be used in various industries like food and dairy, textile, and chemical industries to treat effluent.
- Specific applications:
  This includes breaking down emulsions (like oil-in-water mixtures), conditioning sludge, and even preventing struvite formation in wastewater treatment plants.

**Features & Key Benefits:**

- Improved settling and clarification: Flocculation enhances the settling of solids in sedimentation tanks.
- Reduced turbidity and color: It effectively removes suspended particles that cause turbidity and discoloration in wastewater.
- Phosphorus removal: In some cases, it can also be used to remove phosphorus from wastewater.
- Sludge conditioning: It helps dewater sludge, making it easier to handle and dispose of.

**Safety and Handling:**

- While generally considered safe, it's important to handle liquid alum with appropriate personal protective equipment (PPE) due to its corrosive nature.

- Always refer to the Safety Data Sheet (SDS) for specific safety and handling instructions,

Essential chemical offers free jar testing of the waste material for our customers. Simply contact us to arrange mailing in a sample for our in-house testing. We can also provide our customers a sample for testing onsite.