



## ESCF - CATIONIC FLOCCULENT

Air Flotation - results in clearer underflows and greater through-put **ESCF** is an environmentally friendly, liquid cationic flocculent formulated for use as a primary coagulant in the clarification of surface and waste water, and in oil breaking / de-emulsification processes. **ESCF** is effective, a wide pH range thereby eliminating the need for post treatment pH adjustment. **ESCF** is chlorine resistant, effective at low application rates, & easy to apply.

### **PRINCIPAL APPLICATIONS:**

- Gravity Settling Operations - improves floc formation yielding larger floc size and faster settling rates
- Clarifiers - all types
- Solid-liquid separation systems containing residual chlorine
- Settling basins

### **BENEFITS OF ESCF:**

- Eliminates alum or ferric mud when used as a primary coagulant
- Forms a low volume, compact, high solids sludge which is both biodegradable and burnable
- Less blow down is required resulting in more useable water and increased effective through-put

### **TYPICAL APPLICATION RATE - (Primary coagulant):**

- 1 - 10 ppm \*\* For optimum efficacy, apply prior to pH adjustment

### **APPLICATION OF ESCF:**

Meter into the system with the aid of a corrosion resistant, positive displacement pump. Dilute at a rate of 1:100 in clean water prior to feeding to the process stream. For optimum results disperse feed stream and create maximum turbulence beyond the application point.

### **SPECIFICATIONS:**

**Form:** Free-flowing liquid

**Specific gravity (25C):** 1.10 - 1.14

**Viscosity (25C, cps):** 300 - 600

**Solubility:** 99.9% Water

**Chemical Reactivity:** Non-reactive

**Shelf Life 50 - 100F (10-37C):** 6 Months

**BOD (mg/L):** 100,000

**COD (mg/L):** 200,000

**Odor Threshold No.:** 115

**Taste Threshold No.:** 8,500

**SAFETY:**

The materials used in the production process are derived from naturally occurring and sustainable sources. **ESCF** is non-caustic, non-corrosive, non-flammable and environmentally safe. **ESCF** is not harmful to animals, plants and humans.

**COMPLIANCE:**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3. 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

**STORAGE & HANDLING:**

Do not freeze. Store in a cool location away from direct sunlight - Store at temperatures 50F - 100F (10C - 37C). No special handling required. Spills are slippery and difficult to "hose down". Spills should be scooped and or wiped up prior to flushing with water. (See MSDS)

**PACKAGING:**

20 Litre HDPE Pails

208 Litre Drums