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POLY-FLOC 114 CATIONIC FLOCCULANT

APPLICATION

POLY-FLOC 114 is a high charge density cationic polyacrylamid water-in-oil emulsion intended for use as a flocculant in a wide variety of water treatment applications. An alternate formula is available for clarification or dewatering of food plant wastes which are destined for recycling as animal feed. (See 21 CFR 570.30).

POLY-FLOC 114 has demonstrated particular effectiveness in industrial raw water, mining and wastewater clarification processes. The advantages established with the use of **POLY-FLOC 114** are as follows:

1. Contains no metal salts, thus eliminating potential fouling due to iron or aluminum carryover.
2. Applies easily and performs well over a broad range of system pH.
3. Reduces sludge volume with improved handling characteristics.
4. Stores and handles conveniently

The most effective **POLY-FLOC** product should be selected based on performance testing using actual water or wastewater to be clarified. Assistance in properly selecting and applying **POLY-FLOC** flocculants is supplied by your CH₂O Water Treatment Specialist.

SOLUTION PREPARATION & FEEDING

Laboratory: A stock solution of 1.0% concentration is prepared by adding 10 grams of **POLY-FLOC 114** per liter of water while agitating with a mechanical magnetic mixer. One ml of stock solution added to 1,000 ml sample volume provides 10 ppm of **POLY-FLOC 114**. For sludge dewatering, one ml of stock solution added to 100 ml of sample volume provides 100 ppm of **POLY-FLOC 114**. Additional dilutions of the stock solution can be made if required for influent clarification testing. Stock solutions should be prepared daily.

SOLUTION PREPARATION & FEEDING (Continued)

Plant: **POLY-FLOC 114** may be fed directly from the shipping or storage container using a positive displacement pump. For optimum product performance, dilution with clear water to a 1% solution or less is recommended. **POLY-FLOC 114** is moderately corrosive to mild steel, aluminum, and copper. Chemical feed systems should be constructed of plastic or stainless steel.

Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. It is the customer's responsibility to monitor and maintain treatment levels.

STORAGE

POLY-FLOC 114 should be stored in a cool area and protected from freezing. If freezing occurs, the product can be used after thawing and thorough mixing. The shelf-life of **POLY-FLOC 114** is at least three months. However, product rotation is suggested to avoid prolonged storage.

Spilled product is soluble in water in all proportions and can generally be hosed down without problems. Follow all federal, state, and local regulations in clean-up and disposal of spilled product.

POLY-FLOC 114 may be stored in glass, stainless steel, plastic or epoxy lined tanks. Do not use aluminum, copper, or mild steel tanks, pumps, or piping.

SAFETY & HANDLING PROCEDURES

As with all chemicals, wear chemical resistant gloves and eye protection when handling, moving, or using this product. This is not a respiratory irritant; no unusual precautions are necessary when handling.

PHYSICAL PROPERTIES

pH of 1% Solution	6.5-8.0
Pounds per Gallon	8.5-10
Physical Appearance	White Viscous Liquid
Odor	None
Flash Point	N/A

Seller Warranty

CH₂O brand test reagent refills are available through your sales representative at no charge. Customers are required to confirm product compatibility via a control test for their specific application. CH₂O recommends that you perform regular/daily testing to control chemical levels and cycles of concentration within established limits. Additional tests may be performed at your request. Test reports reflect conditions at the point when the analysis was performed. Results will change over time and with varying operating conditions.

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort. Jurisdiction for any issues arising from or relating to this product shall be in the courts of the State of Washington and the venue shall be Thurston County. Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the rules and procedures as stated in RCW 7.06 and shall be binding upon both parties without right to appeal, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

Applies to all products sold by CH₂O, Inc., and is hereby communicated to all of its customers as a condition of sale. Use of CH₂O products is subject to the Standard Terms and Conditions as listed on CH₂O, Inc.'s website at: www.ch2o.com.

