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POLY-FLOC 112 CATIONIC FLOCCULANT

TYPICAL APPLICATION

POLY-FLOC 112 is a high molecular weight, high-charge density cationic emulsion polymer. This product is designed to enhance liquid/solid separation in a wide variety of industrial applications.

- Clarification
- Thickening
- Sludge Dewatering

POLY-FLOC 112 can be used as a processing aid in the flocculation and recovery of nutrients such as protein and carbohydrates from food processing waste. The recovered material may then be used in the preparation of feed ingredients for food animals in accordance with maximum use level of 1% by weight of dry waste stream solids (20 lbs/ton) on active polymer basis and material recovered comprises no more than 30% of animals' dietary solids.

An outside third party warrants that when used under the above guidelines, **POLY-FLOC 112** can be considered generally regarded as safe (GRAS) for the intended purpose.

POLY-FLOC 112 is a single component emulsion polymer and must be pre-diluted with water prior to use. Commercial systems are available to prepare solutions of product via in-line dilution and mixing. The manual method for dilution is to add the neat product into the vortex of a mixer tank at the recommended concentration. Recommended solution concentrations should be between 0.5 and 1.0%. Prepared dilutions should be aged for at least 30 minutes prior to use. Shelf life of dilutions is 8-16 hours. Secondary dilution to 0.05-1% before the application point can improve product performance.

STORAGE & HANDLING

POLY-FLOC 112 should be stored in a cool area and protected from freezing. If freezing occurs, the product should be warmed to 40 to 90° F and agitated prior to subsequent use.

Product rotation is recommended to avoid prolonged storage times. A very slight separation will occur upon standing, as noted by a clear upper layer of oil. Mild agitation will restore uniformity. The shelf-life of **POLY-FLOC 112** is at least six months in unopened containers.

Spilled product should be scooped up as much as possible and the remaining thin layer absorbed with a solid material such as sweeping compound. Washing the area with water should only be attempted after most of the polymer has been removed. Follow all federal, state and local regulations in clean-up and disposal of spilled product.

POLY-FLOC 112 may be stored in glass, stainless steel, plastic or epoxy lined tanks. Do not use aluminum, copper or mild steel tanks, pumps or piping.

PHYSICAL PROPERTIES

Appearance Opaque, Off-white Emulsion
 Density (77°F).....8.7 ± 0.1 Pounds per Gallon
 Viscosity (RVT 3/50/81°F)..... 400-1000 cps
 Freeze Point25°F

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 product data sheet. Buyer is responsible to ensure that products and product dosages are appropriate for Buyer's particular application. 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.



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