Fact Sheet

PolyFloc* MP2402

Description and Use

PolyFloc MP2402 is a high charge density, high molecular weight, anionic polymer designed to function as a flocculant in meat processing waste water applications. The product is supplied as a free flowing powder that can provide a cost effective solution compared to anionic emulsion flocculants.

Typical Application

PolyFloc MP2402 is typically employed as the secondary flocculant in EAF (Entrapped Air Flotation) applications following a cationic flocculant to enhance float solids stability and concentration.

The product can also be effective as a primarily flocculant in EAF applications. Particularly, when the substrate pH is above 5.5. The high anionicity of the product results a very shear stable floc that rapidly separates from the wastewater.

PolyFloc MP2402 is GRAS approved for applications where the separated wastewater solids are recycled into the production of aniumal feed.

Treatment and Feeding Requirements

PolyFloc MP2402 should be dissolved in water before use. The solution may be prepared in batch fashion by slowly adding the powder to the vortex of an agitated tank, using a dry powder feeder or an eductor.

Do not add water to the dry polymer. Maximum practical solution concentration is 0.5% by weight. Air or low speed (350 rpm) mechanical agitation should continue until complete dissolution is accomplished in about one hour. Dissolution is accelerated with warm water (≤150°F, 65°C). Avoid high shear or excessive agitation once the product has been dissolved. Diluted solutions should be used within 24 hours for maximum activity.

Further dilution of the stock solution to approximately 0.05% by weight, enhances polymer performance in most applications. For dewatering applications, diluting to ≤ 0.25% may be more practical.

Diluted product may be fed by a pump or by gravity flow to a point where good mixing, but not violent agitation, with the waste stream occurs. Pumps used to transfer the solution to the point of application should be positive displacement gear or piston pumps.

Compatible materials for tanks, pumps, and piping are : stainless steel, HD polyethylene, or polyvinyl chloride. Mild steel is acceptable only in systems where contamination by corrosion products is not a critical problem. Viton and Tygon rubbers are acceptable for pump components and hose linings.

Packaging Information

PolyFloc MP2402 is a dry powder, available in bags (40 lbs.).

Storage and Handling

Store PolyFloc MP2402 under dry, low humidity conditions. Opened containers should be re-sealed prior for storage. The recommended shelf life of the product is one year. Spills should be scooped and/or wiped up before flushing with copious amounts of water.

Safety Precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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