



STL-PDS-NA-Delfloc 763-R2

Delfloc™ 763 flocculating agent

Product Description

Delfloc™ 763 flocculating agent is a highly effective flocculating agent for increasing settling rates of suspended materials in industrial processing and wastewaters. It is a modified polyamide-epichlorohydrin resin produced as a 35% solution in water.

In process waters of titanium dioxide manufacturing, only small amounts of this polyelectrolyte resin are required to obtain rapid flocculation and increased settling rates. Delfloc 763 is equally effective as a settling aid in the clarification of industrial wastewaters, and especially so for wastewaters of plants handling and formulating latex products. In the paper industry, use of Delfloc 763 in flotation-type "saveall" wastewater treatment equipment greatly improves recovery of suspended material and clarity of the effluent.

Product Application

Titanium Dioxide Production (Sulfate Method):

Addition of about 5 gallons of Delfloc 763 (as received) per 10,000 gallons (500 ppm) of digestion liquor will generally result in rapid flocculation and settling of suspended matter. When fairly long settling times are possible, the concentration of Delfloc 763 may be reduced to as low as 1 gallon per 50,000 gallons (20 ppm). For maximum efficiency, it is important to distribute it uniformly throughout the settling tank. This can be accomplished by diluting it to 0.2% solids or less, and then adding it concurrently with the liquor as the tank is being filled. Once the settling tank is full, agitation should be held to a minimum to permit maximum flocculation. In some cases, addition of a small amount of animal glue with Delfloc 763 will improve flocculation and settling rate.

Clarification of Latex-Containing Wastewaters:

Use of Delfloc 763 can achieve economical liquid-solid separations of wastewaters containing natural rubber, styrene-butadiene rubber (SBR), chloroprene, polyvinyl acetate, acrylic and acrylonitrile polymers, and similar latices and emulsions used in the manufacturing of paints and adhesives. Under suitable conditions, a small amount of this

polyelectrolyte resin overcomes the stabilization effect of latex emulsifiers and protective colloids, flocculates the latex particles, and leaves a supernatant liquid suitable for discharge into public waters or sewage systems.

Caution: Even traces of Delfloc 763 may break a latex or emulsion. Therefore, it should be kept away from production and packaging facilities, and should not be considered for use if this precaution cannot be enforced.

Latex wastewaters may contain up to 5% by weight of natural and synthetic polymer latices or emulsions, which, in turn, are composed of resin, pigments, emulsifiers, thickeners, defoamers, antioxidants, and similar agents. In such operations, Delfloc 763 can be used effectively to clarify the effluent by adding the resin to the wastewater as the settling tank is being filled or after the tank has been filled, as long as there is good resin distribution. For optimum distribution of Delfloc 763, the resin should be diluted to around 0.2% solids or less before addition to the latex waste dispersion. Field experience has shown that a treating rate of 150 to 450 ppm solid Delfloc per total weight of latex-containing wastewater is usually satisfactory. When Delfloc 763 has been thoroughly dispersed, agitation is stopped, and within minutes the dispersed waste will start to flocculate and settle to the bottom of the tank. The clarified supernatant liquid generally will contain less than 0.3% solids.

Before treating latex-containing wastewaters, it is preferable to determine in the laboratory the optimum dosage level of Delfloc 763. This flocculation aid is also adversely affected by oxidizing agents such as chlorine. Diluted Delfloc 763 is not affected by shearing action of circulating or feed pumps, and may be stored for several weeks without loss of efficiency.

Delfloc 763 is to be used in accordance with control procedures Solenis establishes for a specific application.

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Benefits

- High efficiency in both alum and alum-free systems
- Ready-to-use liquid form
- No special makeup procedures required

Packaging

This product is available in a variety of packaging sizes. Your Solenis representative will recommend the appropriate packaging for the application.

Important Information

Typical Properties: Refer to the Safety Data Sheet (SDS).

Regulatory Information: Refer to the SDS or contact your sales representative for any additional regulatory and environmental information.

Safety: Solenis maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using Solenis products in your facilities.