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**Flocculant, Polyacrylamide, Cationic
polyacrylamide, Anionic
polyacrylamide, Nonionic polyacrylamide and
Polyaluminum chloride.**

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**water treatment chemical suppliers
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Example 1 To a copolymer of acrylamide and sodium acrylate (molar ratio; Eighty five : 15, Sumifloc FA-40) was mixed a melamine resin (Sumirez resin 607: trademark of a melamine resin made by Sumitomo Chemical Company, Limited) in order to form each composition containing 1, 3 or 5 % by weight of the melamine resin and thereto was added water, and the mixture was slowly agitated to offer an aqueous solution having a concentration of 0.1 % by weight. Pat. No. 2,872,355 and a dicyandiamide-formaldehyde precondensate, for example, Sumiset D (a trademark of Sumitomo Chemical Company, Limited). In the current invention, most popular compositions are ones comprising the said anionic polymer and the mentioned melamine-formaldehyde or dicyandiamide-formaldehyde precondensate. An object of the present invention is to provide a novel polymeric flocculant composition comprising predominantly an acrylamide polymer and a small quantity of an amino resin precondensate. Example four To a cationically modified polyacrylamide (cation worth in modification by the Mannich reaction: 20 %, Sumiflock FC-50) was added the identical melamine resin as in Example 1 in order to type every composition containing 5, 10 or 20 % by weight of the precondensate and thereto was added

water, and the mixture was slowly agitated to provide an aqueous resolution having a concentration of 0.1 % by weight.

Example three To a copolymer of acrylamide and sodium acrylate (molar ratio; Eighty five : 15, Sumifloc FA-40) was added a guanidine-formaldehyde precondensate in order to form every composition containing 2.5, 5, or 10 % by weight of the precondensate. The polymeric flocculant composition of the present invention includes (a) an acrylamide polymer containing 50 or more % by mol of an acrylamide unit and (b) at the very least one amino resin precondensate chosen from the group consisting of urea-formaldehyde, melamine-formaldehyde, guanidine-formaldehyde and dicyandiamide-formaldehyde, whereby the acrylamide polymer and the amino resin precondensate are admixed in a ratio of 90 : 10 to 99 : 1 by weight. However, the standard polymeric flocculant comprising a polyacrylamide must be utilized in a comparatively giant quantity of a resin for achieving the enough flocculation impact, and this is disadvantageous not solely from the viewpoint of the high cost but in addition for the rationale that the addition of a considerable amount of the excessive polymeric substance causes inhibition of the dewatering and filtration of the primarily flocculated sludge. In keeping with the preferred embodiment of the current invention, the specified product could also be preferably produced by admixing a powdery acrylamide polymer and a powdery amino resin precondensate in the optimum ratio as above-mentioned by utilizing a mixer or the like, by which a really stable composition could also be obtained.

A static or in-line mixer is beneficial for coagulants for coagulation to completely mix the polymer with the dilution water previous to utility. Under certain chemical conditions (usually in acid-catalyzed sols), the interparticle forces have ample strength to trigger appreciable aggregation and/or flocculation prior to their progress. Polymeric flocculants have been used for cleaning the waste water by the effect of flocculating the suspended particles. Drinking water issues are pervasive in growing nations. Plant-primarily based biocoagulants/bioflocculants are still being specialized on this analysis topic. A nonetheless further object of the invention is to offer a process for treating waste water with the composition as set forth above. An additional object of the invention is to supply a course of for producing a polymeric flocculant composition having an excellent flocculation effect and which is excellently stable. However, in order to be effective, the coagulant should be applied and added to the method water properly. A system that purifies water by distillation can remedy this downside; nevertheless, the harvest is location-particular. When the composition of the present invention is used as a flocculant, it could preferably be dissolved in or diluted with water so as to offer a concentration of about 0.1 to 1.0% by weight with mild agitation, during which the time for the dissolution or dilution could also be about 2 to 5 hours, and the aqueous resolution thus obtained may be added to the waste water to be treated.

For measuring the flocculation impact of the solution, the solution obtained above (2.0 ppm, calculated because the composition based mostly on a slurry to be treated) was added to an aqueous slurry (pH 3.0) containing 2 % by weight of kaolin, and then the sedimentation rate and permeability rate have been measured. For measuring

the flocculation impact of the solution, the solution obtained above (2.Zero ppm, calculated because the composition based mostly on a slurry to be handled) was added to an aqueous slurry (pH 4.5) containing 2 % by weight of diatomaceous earth, and then the sedimentation charge and the permeability rate were measured. The answer thus obtained (3.0 ppm or 4.Zero ppm, calculated because the composition based on a slurry to be handled) was added to an aqueous slurry (pH 4.5) containing 2 % by weight of diatomaceous earth, and then the sedimentation rate and the permeability charge were measured. When the powder product is used, it's beforehand dissolved in water in order to offer a focus of about 0.1 to 1.0%, and then the aqueous resolution is added to the waste water to be treated. The amount of the present composition to be added depends upon the strong concentration of the waste water (slurry or sludge), and will usually be 0.1 to 10 ppm based on the waste water.

In IP, an antibody is added first to a mixture containing an antigen, and incubated to permit antigen-antibody complexes to type. Separating and stacking gels had been each allowed to polymerize for 1 h at room temperature, after which cassettes were sealed in packages containing a small quantity of ultrapure water and stored at four

Flocculants help in cleaning wastewater by removing harmful solids in industrial plants. After jar test, the pH value of handled water got changed by about

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