

Formulae and Manufacturing Process of Emulsifiers with Uses and Applications

Description:

Emulsifier is an organic compound that encompasses in the same molecule two dissimilar structural groups e.g. water soluble and a water insoluble moiety. It is the ingredient which binds the water and oil in a cream or lotion together permanently. The composition, solubility properties, location and relative sizes of these dissimilar groups in relation to the overall molecular configuration determine the surface activity of a compound. Emulsifiers are classified on the basis of their hydrophilic or solubilizing groups into four categories: anionic, non-ionic, cationic and amphoteric. Emulsifier is utilized in various industries; agriculture, building and construction, elastomers & plastics, food & beverages, industrial cleaning, leather, metals, paper, textiles, paints & protective coatings etc. An emulsion is an ideal formulation for the administration. The emulsion form allows uniform application of a small amount of active ingredient on the surface of the skin. Some of the important emulsions in different fields are pharmaceutical emulsions, rosin & rubber emulsion, textile emulsions, pesticide emulsions, food emulsions, emulsion in paint industry, emulsion in polish industry, leather & paper treatment emulsions etc. Various cosmetics creams, such as moisturizers, contain emulsifiers. Lighter, less greasy feeling creams are oil in water emulsions; heavier creams used to treat rough skin are water in oil emulsions, with oil as the main ingredient. Liquid soaps, toothpastes and other body care products also contain emulsifiers.

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