ABSTRACT

METHOD FOR SOLUBILISING, DISPERSING AND STABILISING OF SUBSTANCES, PRODUCTS MANUFACTURED ACCORDING TO THE METHOD AS WELL AS THE USE THEREOF

Disclosed is a method in which poloxamer, a resin, and/or a tocopherol is/are fused, and the material that is to be treated is intimately dispersed with said melt. After being introduced into the melt, the material that is to be treated is coated with water to prevent hardening, and the spontaneously forming gel is homogenized. The obtained product is composed of a transparent gel that is based on at least one poloxamer, a resin or a tocopherol, and an active substance which is solubilized, dispersed, and stabilized therein and whose consistency ranges from solid, semisolid, i.e. aspic-like, to liquid. The micelles of said solubilized matter remain stable even when the same is diluted well below the CMC of poloxamer. The inventive products can be used for dissolving fats, peptides, resins, and all types of resinous materials, removing fats, peptides, resins, and all types of resinous materials from surfaces, cleaning, and lubricating, according to the solubilized active substances used. If a vegetable substance is intimately dispersed in such a melt, the melt is cooled instead of being coated with water. The melt turns brittle and can then be coarsely chopped and ground in a chopper-grinder without producing dust and can then be finely ground in a wet state with water in a hammer mill or an emulsifying mill until the crystals of the melt have been reduced to a diameter of less than 5 micrometers. The crystals of the melt are then dissolved or dispersed in additional water and are added to the humus soil in order for the crystals to be absorbed by the plant via the roots thereof, or the crystals are sprayed directly to the part of the plant that lies above the ground.