

Cardanol Production from Cashew Nut Shell Liquid (CNSL)

Description:

Cardanol Production from Cashew Nut Shell Liquid (CNSL). Cardanol Manufacturing Business. Profitable Cashew Nut Processing Industry

Cardanol is a natural phenol obtained from anacardic acid, the main component of cashew nutshell liquid (CNSL), a byproduct of cashew nut processing being an eco-friendly substitute for phenols.

Cashew phenol popularly known as Cardanol or Card-Phenol manufactured from cashew nut shell liquid (CNSL). It is a monohydroxyl phenol having a long hydrocarbon chain (C₁₅H₂₇) in a metaposition.

The name cardanol is used for the decarboxylases derivatives obtained by thermal decomposition of any of the naturally occurring anacardic acids. This includes more than one compound because the composition of the side chain varies in its degree of unsaturation. Tri-unsaturated cardanol, the major component (41%) is shown below. The remaining cardanol is 34% mono-unsaturated, 22% bi-unsaturated, and 2% saturated.

Application:

Cardanol finds use in the chemical industry in Oil and Alcohol soluble resins, laminating resins, rubber compounding and coatings, serving as an excellent raw material for the preparation of high grade insulating varnishes, paints, enamels. It is used in friction materials, and surfactants as pigment dispersants for water-based inks and to make phenalkamines, which are used as curing agents for the durable epoxy coatings used on concrete floors. Cardanol can substitute Phenol in up to 30% in phenolic resins used as plywood bonding resin and for the lamination industries.

For more details download PDF file.

Keywords: #Production_of_Cardanol, #Production_of_Cardanol_from_Cashew_Nut_Shell_Liquid_(CNSL), #Cardanol_Manufacturing_Process, #Cardanol_from_Cashew_Nut_Shell_Liquid, #Cardanol_Manufacture, #Extraction_of_Cardanol_from_Cashew_Nut_Shell_Liquid, #Preparation_of_Cardanol, Cardanol Production, Cardanol Process, CNSL Distillation/ Cardanol Manufacturing, Cardanol Manufacturing Business, Extraction Process of Cardanol, Cardanol from CNSL, Project Report on Cardanol from C.N.S.L, Cardanol Manufacturing Plant,

Created At: 24 Dec, 2018