

Cashew Nut Shell Oil Production

Description:

Cashew Nut Shell Oil Production. Manufacturing of Cashew Nut Shell Liquid or CNSL or Cashew Shell Oil or CNSL Oil

CASHEW NUT SHELL LIQUID or CNSL or Cashew Nut Oil or Cashew Shell Oil or CNSL Oil is a versatile by product of the Cashew industry. The nut has a shell of about 1/8 inch thickness inside which is a soft honey comb structure containing a dark reddish brown viscous liquid. It is called CASHEW NUT SHELL LIQUID or CNSL. Which is the pericarp fluid of the Cashew Nut. It is often considered as the better and cheaper material for unsaturated phenols.

CNSL has innumerable applications, such as friction linings, paints, laminating resins, rubber compounding resins, cashew cements, polyurethane based polymers, surfactants, epoxy resins, foundry chemicals, and intermediates for chemical industry. It offers much scope and varied opportunities for the development of other tailor-made polymers.

Cashew Nut Shell Liquid undergoes all the conventional reactions of phenols, CNSL aldehyde condensation products and CNSL based phenolic resins are used in applications such as surface coatings, adhesives. Various polyamines synthesized from CNSL are used as curing agents for epoxy resins. CNSL and its derivatives have been used as antioxidants, plasticizers and processing aids for rubber compounds, modifiers for plastic materials and used to provide oxidative resistance sulphur-cured natural rubber products. It is also added to rubber gum stock or nit rile rubber to improve the processability, mechanical properties and resistance to crack and cut properties of the vulcanisates.

For more details download PDF file.

Keywords: Cashew Nut Shell Oil, Cashew Nut Shell Liquid (CNSL), Manufacturing Process of Cashew Nut Shell Liquid, Cashew Nut Shell Liquid Production, Cashew Nut Shell Liquid CNSL Oil, Cashew Kernel and Cashew Nut Shell Liquid Production, Cashew Nut Shell Oil Manufacture, Cashew Nut Shell Liquid Project Report, Cashew Nut Shell Oil Extraction, Cashew Nut Shell Liquid Uses, Cashew Nut Shell Liquid Manufacturing Process, How to make Cashew Oil, Cashew Nut Shell Liquid Oil Uses, Cashew Nut Processing with CNS

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