

Manufacturing Process of Rosin, Terpene, Tall Oil, Resin & Dimer Acids (Oleoresin and Pine Chemicals) Terpenoids, Turpentine, Terpene based Adhesives, Peroxides from Turpentine, Terpene Resins, Terpene Derivatives

Description:

One of the oldest segments of the chemical industry, pine chemicals are a family of renewable, naturally occurring materials derived from the pine tree (genus *Pinus*). Pine trees originate from the northern hemisphere but are now found worldwide.

Pine chemicals are derived from the distillation of oleoresin or carbonization of wood. These chemicals are largely obtained from three sources: 1) living trees; 2) dead pine stumps and logs; and 3) as by-products of sulfate (or Kraft) pulping. Most distilled products are made from gum, stumps, logs, and sulfate pulp byproducts.

The pine tree, utilized through the centuries as a valuable natural resource, has many applications in our society. In early civilizations the pine tree was used as fuel and shelter. As societies developed, the pitch (or sap) from the tree found use in caulking seams between the boards of sailing ships and pine lumber could be used for building materials, paper, board and tissue. Pine Chemicals are environmentally friendly products that use natural, renewable resources as primary raw materials originating from sustainable forestry sources. For many years the pine chemicals industry has supplied bio renewable feed stocks to the \$130 billion dollar coatings industry. These products include tall oil fatty acids (TOFA) and tall oil rosin sourced from pine trees, making them renewable and sustainable solutions.

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Keywords: Manufacturing Process of Rosin, Manufacturing of Terpene, Manufacturing of Tall Oil, Manufacturing of Resin, Manufacturing of Dimer Acids, Oleoresin and Pine Chemicals, Pine chemicals oleoresin, Terpenoids, Turpentine, Terpene based Adhesives, Peroxides from Turpentine, Terpene Resins, Terpene Derivatives, *Pinus*, Pine Oleoresin Extraction, Processing Of Oleoresin, Rosin Derivatives, Rosin Ester And Dimer Chemistry, Peroxides From Turpentine, Pinonic Acid, Wood Turpentine Oil From Pine Stumps

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