

# **Handbook on Oleoresin and Pine Chemicals (Rosin, Terpene Derivatives, Tall Oil, Resin & Dimer Acids)**

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**Format:** paperback

**Code:** NI207

**Pages:** 608

**Price:** Rs.2200US\$ 200

**Publisher:** NIIR PROJECT CONSULTANCY SERVICES

Usually ships within **5** days

Oleoresin and pine chemicals are a fascinating group of substances derived from the sap of coniferous trees. This diverse family of products includes rosin, terpene derivatives, tall oil, resin, and dimer acids, each with their own unique properties and characteristics. Rosin, also known as colophony, is a sticky substance that is obtained by distilling the resin from pine trees. Terpene derivatives, on the other hand, are a broad class of compounds that are derived from terpenes, which are the primary components of essential oils in plants. Tall oil is a byproduct of the pulping process in the paper industry. It is obtained by extracting fatty acids from the black liquor, a waste stream generated during pulp production. Resin refers to the mixture of gum and resin obtained from pine trees. It is often processed to remove impurities and concentrated into a solid or liquid form. Dimer acids are a specific type of fatty acid derived from tall oil or other vegetable oils. They are created through a chemical reaction called dimerization, which involves the linking of two fatty acid molecules. Dimer acids are known for their excellent performance as raw materials in the production of various products such as coatings, adhesives, and synthetic lubricants.

The global oleoresin market size is anticipated to witness a compound annual growth rate (CAGR) of 6.9%. Growing demand from healthcare, pharmaceutical, food, and beverage industries are driving forces of the global oleoresin market. Oleoresins are made from varied ingredients and spices, which are found all around the world. It is usually found in semi-solid extract form. A variety of oleoresins has multiple characteristics based on the spice they are derived from. They exhibit numerous therapeutic as well as antioxidant properties as well and are utilized in the pharmaceutical, healthcare, food, and beverage industries. The European region led the market with a revenue share of more than 30%. This is attributed to the increasing demand for flavors and coloring agents from the food & beverage industry. Another factor contributing to increased demand for the product in the region is the demand from cosmetic, fragrance, and personal care products industries that act as a hefty end-use industry for oleoresins.

The Major Contents of the books are Pinus, Oleoresin Extraction, Processing of Oleoresin, Rosin Derivatives, Terpene Based Adhesives, Essential Oil, Wood Turpentine Oil, Turpentine Products, Tall Oil, Dimer Acids.

A comprehensive reference to manufacturing and entrepreneurship in the Oleoresin and Pine Chemicals products business. This book is a one-stop shop for everything you need to know about the Oleoresin and Pine Chemicals products manufacturing industry, which is ripe with

potential for manufacturers, merchants, and entrepreneurs. This is the only comprehensive guide to commercial Oleoresin and Pine Chemicals products manufacture. It provides a feast of how-to knowledge, from concept through equipment purchase.

## 1. PINUS

Introduction

Distribution

Distribution in India

Morphology

Key to the Identification of Indian Species

Anatomy

Root

Root-Stem Transition

Shoot Apex

Stem

Leaf

Embryology

Male Cones

Female Cones

Pollination

Receptive Spot

Fertilization

Embryogeny

Seed Coat

Wing

Germination

Cytology

Seed Testing

Seed Production and Dormancy

Breeding

Diseases

Mycorrhiza

Pests

## 2. PINE OLEORESIN EXTRACTION METHODS

Introduction

Cup the Larger-Diameter Trees for Increased Yields and Greater Profits

Double-Facing

Gum Yield from Shoulders

Use Current Tin Lengths

First-Year Installation of Spiral Gutters with Double-Headed Nails

Shaving the Bark

Attach the Apron First

Attaching the Spiral Gutter

Completed Installation

Use of the Advanced Streak

Turpentine and Growth

Bark Chipping

Mounting and Sharpening the Bark Hack

Treating the Streak

Acid Penetration Above the Streak

Wounding the Tree for Gum Production

Metal Cups, Acid Corrosion and Gum Grades  
Raising Tins Installed with Double-Headed Nails  
Bark Pulling and Acid Treatment  
How to Use the Spray-Puller  
Acid Paste Method  
Applying the Paste  
Chipping and Paste Treatment  
Streak Height  
Turpented Section Suitable for Other Wood Products  
Beetle Attacks and Control Measures  
The Black Turpentine Beetle  
The Ips Beetle  
Solutions for Beetle Control  
3. PINES FOR THEIR OLEORESIN  
Occurrence, Formation and Exudation of Oleoresin in Pines  
Oleoresin Tapping  
French Methods  
Spanish Method  
Greek Method  
Indian Method  
Mexican Method  
American Bark-Chipping Method  
The Austrian and German "Herringbone" Methods  
Russian Methods  
Methods in Other Countries  
Felled Pine Wood as Source of Rosin and Turpentine  
Composition of Oleoresin  
Summary  
4. PROCESSING OF OLEORESIN  
Processing of Oleoresin  
Olustee Gum Cleaning Process  
Recovery of Turpentine and Rosin  
Stripping Column  
Multiple Tube Column  
Luwa Columns  
Fractionation of Turpentine  
Batch Operation  
Semi-Continuous Operation  
Continuous Operation  
Column Packings  
Isomerisation of  $\alpha$ -Pinene  
Camphene Via Bornyl Chloride  
Catalytic Isomerisation of  $\alpha$ -pinene  
Reaction Mechanism  
Design Aspect of an Isomerisation Reactor  
Liquid Phase  
Vapor Phase  
5. ROSIN DERIVATIVES AND ITS POTENTIAL  
6. HYDROGENLESS HYDROGENATION OF RESIN  
ACIDS  
Experimental  
Results and Discussion  
Transfer Hydrogenation of Isopimaric/Pimaric Acids

Transfer Hydrogenation of Abietic Acids

Reaction Mechanism

## 7. NEW DEVELOPMENTS IN ROSIN ESTER AND DIMER CHEMISTRY

New Rosin Esters

Chemistry of Rosin Dimers

## 8. TERPENE RESINS

Physical Properties

Chemical Properties

Manufacture

Uses

## 9. TERPENE BASED ADHESIVES

Introduction

Chemistry

Beta-Pinene Resins

Initiation

Propagation

Termination

Dipentene Resins

Alpha-Pinene Resins

Physical Characteristics of Resins

Pressure Sensitive Adhesives

Hot Melt Adhesives

Analytical Methods

Commercial Resins and Their Uses

Commercial Production

Applications in Pressure Sensitive Adhesives

Applications in Hot Melt Adhesives

## 10. OZONOLYSIS OF ALPHA-PINENE

Effect of Solvent, Ozone Concentration and Temperature on Yields were Investigated

Experimental Conditions are Discussed

## 11. $\alpha$ -BROMOLONGIFOLENE

Steam Distilled Products

Residue

Chromic Acid Oxidation of Dilongifolenyl Ether

Lead Tetraacetate Oxidation of Longifolene

## 12. PEROXIDES FROM TURPENTINE

Peroxide Number and Degree of Unsaturation are Tests of Product Quality

Catalytic Hydrogenation of Pinene to Pinane is First Step in Hydroperoxide Production

Small and Large Scale Techniques of Pinane Oxidation are Investigated

Cold-Rubber Polymerization

Decomposition of Pinane Hydroperoxide

Over-all Yield of 85% is Realized in Production of High Purity Hydroperoxide

Peroxidation

Stripping of Oxidates

Polymerization

Heavy Metal Salts Accelerate Decomposition of Pinane Hydroperoxide

Decomposition

Summary

## 13. PINONIC ACID

Ozonolysis of  $\alpha$ -Pinene in Acetic Acid Solution Proved Best Method

Yields were Determined by Partition Chromatography

Ozone Source

Reagents

Ozonization

Calculations and Analyses

Direct Ozonolysis was not Successful

Ozonization in Methanol

Ozonization and Decomposition in Aqueous Acetic Acid at Room Temperature

Ozonization in Aqueous Acetic Acid at 0°C. Decomposition in the Presence of Oxidants

Ozonization in Nitromethane

#### 14. SYLVESTRENE AND SOME OF ITS DERIVATIVES

Sylvestrene

Sylvestrene Nitroschloride

Sylvestrene Oxide

m-Terpeneols

Sylvestrenehydrocarvone

#### 15. 8-ACETOXYCARVOTANACETONE

#### 16. RECOVERY OF 3-CARENE FROM CHINESE

TURPENTINE AND SYNTHESIS OF

ACETYLCARENES

Introduction

Distillation of Wood and Sulfate Turpentine

Material and Methods

Distillation Results

Synthesis of Acetyl-Carene

Materials and Methods

Results and Discussion

Synthesis Products

#### 17. HOMOPOLYMERS AND COPOLYMERS OF

ACRYLATES

Introduction

Results and Discussion

Monomers

Homopolymerization

Copolymerization

Terpolymerization

Epoxidation

Curing

Hydrolysis of Polymethacrylate of I

Experimental

Reduction of  $\alpha$ -Campholene Aldehyde

Typical Preparation of a Monomer: Methacrylate of II

Typical Homopolymerization Recipe: Homopolymer Methacrylate of II

Typical Copolymerization Recipe: Copolymer of the Methacrylate of II and Acrylate of I

Solution Copolymer of the Methacrylate of II and Fumaronitrile

Typical Terpolymerization Recipe: Terpolymer of the Acrylate of I, Acrylonitrile and Butadiene

Typical Epoxidation Procedure

#### 18. POLYMERS AND COPOLYMERS OF VINYL

PINOLATE

Preparation of Vinyl Pinolate

Polymerization

Reaction of Vinyl Pinolate Copolymers with Isocyanates

Experimental

Preparation of Vinyl Pinolate

Polymerization of Vinyl Pinolate in Solution

Polymerization of Vinyl Pinolate in Suspension  
Polymerization of Vinyl Pinolate in Emulsion  
Copolymerization of Vinyl Pinolate and Vinyl Acetate in Solution  
Copolymerization of Vinyl Pinolate and Vinyl Chloride in Solution  
Copolymerization of Vinyl Pinolate and Vinyl Chloride in Emulsion  
Reaction of Polymers with Isocyanates  
Evaluation of Vinyl Pinolate and Vinyl Chloride Copolymers  
19. HOMOPOLYMERIZATION OF HYDRONOPYL

#### VINYL ETHER

Discussion  
Experimental  
Materials  
Preparation of 2-Hydronopoxyethyl Vinyl Ether  
Polymerization of HVE and HEVE  
X-Ray Analysis of Poly (HVE)  
Evaluation of Poly (HEVE)

#### 20. TERPOLYMERS OF ETHYLENE AND PROPYLENE WITH d-LIMONENE AND $\alpha$ -PINENE

Introduction  
Results and Discussion  
Experimental  
Materials  
Preparation of EPT Rubber  
Analysis of Unsaturation  
Determination of Gel Content  
Determination of Methyl Group Content in Polymer  
21. LOW MOLECULAR WEIGHT POLYMERS OF

#### d-LIMONENE

Experimental  
Materials  
General Procedure  
Results  
Infrared Spectra  
Nuclear Magnetic Resonance Spectra  
Optical Activity  
Perbenzoic Acid Oxidation  
Discussion

#### 22. BASE-CATALYSED ISOMERISATIONS OF TERPENES

Hydrocarbons  
Alcohols  
Aldehydes  
Ketones  
Acids  
Esters  
Epoxides  
Conclusion

#### 23. COPOLYMERS OF VINYL CHLORIDE OF PINENE

Experimental  
Homopolymerization  
Copolymerization  
Test of Heterogeneity of a Copolymer  
Evaluation of New Polymers

## 24. POLYALLOX-CIMENE

Experimental

Monomer

Polymerizations

Polymer

Ozonolysis

Discussion of Results

## 25. ESSENTIAL OIL IN CHLOROPHYLL-CAROTENE

PASTE FROM PINE NEEDLES AND TWIGS

Abstract

## 26. ESSENTIAL OIL OF THE CONE OF PINUS

SYLVESTRIS VAR. MONGOLICA

## 27. COMPONENTS OF PINE ROOTS

Conclusions

Composition of the Remaining Neutral Fraction

Composition of the Carbonyl Fraction

Composition of the Hydroxyl Fraction

Results and Discussion

Composition of Turpentine

Composition of the Resin Acid Fraction

## 28. WOOD TURPENTINE OIL FROM PINE STUMPS

## 29. BLENDING OF TURPENTINE PRODUCTS

Lilac

Pine Bouquet

Cuir De Russe (for leather)

Violet

Lavender Bouquet

Oriental

Gardenia

Fougere

Eau De Cologne

Amber

Chypre

Ylang Syn

Sweet Pea

## 30. BIOLOGICALLY ACTIVE COMPOUND FROM

TURPENTINE

Terpenoids as Antimicrobials

Terpenoids as Anthelmintics

Terpenoids as Insecticides

Terpenoids as Plant Growth Hormones

Terpenoids as Anticancer Agents

Terpenoids as Pharmacological Agents

Terpenoid Derivatives as Biodynamic Agents

Terpenoids as Intermediates for Synthesis of Bio-dynamic Agents

## 31. INSECTICIDES BASED ON TURPENTINE

Toxaphene (C<sub>10</sub>H<sub>10</sub> Cl<sub>8</sub>)

Strobane (C<sub>10</sub>H<sub>11</sub> Cl<sub>7</sub>)

## 32. TALL OIL

History of Tall Oil

Production Processes for Tall Oil

Recovery of Tall Oil

Acid Refining of Tall Oil

Fractionation of Tall Oil  
Composition and Properties of Tall Oil  
Crude Tall Oil  
Distilled Tall Oil  
Acid Refined Tall Oil  
Fractionated Tall Oil  
Analysis and Testing of Tall Oil Products  
Shipping, Storage and Handling of Tall Oil Products  
Crude Tall Oil  
Acid Refined Tall Oil  
Tall Oil Fatty Acids and Distilled Tall Oils  
Tall Oil Heads  
Tall Oil Pitch  
Tall Oil Rosin  
Safety Notes

Applications of Tall Oil  
The Chemistry of Tall Oil Fatty and Rosin Acids  
Chemical Composition of Tall Oil Fatty Acids  
General Reactions of Tall Oil Fatty Acids  
Chemical Composition of Tall Oil Rosin  
General Reactions of Tall Oil Rosin  
Tall Oil Products in Surface Coatings  
Tall Oil in Alkyd Resins  
Tall Oil Formulations in Alkyd Resins  
Esters of Tall Oil Products  
Tall Oil Formulations in Esters  
Other Uses for Tall Oil Products  
Tall Oil in the Plasticizer Field  
Esterification of Tall Oil for Plasticizers  
Tall Oil in Adhesives and Linoleum Cement  
Tall Oil in Rubber-based Adhesives  
Tall Oil in Hot-Melt Adhesives  
Tall Oil Products in Linoleum Cements  
Formulation with Tall Oil  
Formulation with Tall Oil Esters

### 33. DIMER ACIDS

The General Characteristics of Dimer Acids  
Introduction  
Dimer Acids Manufacture and Feedstock  
By Products of the Dimerization Reaction  
Monomer Acids  
Trimer Acids  
Structure and Properties of Dimer Acids  
Structure of Dimer Acids  
Analysis of Dimer Acids  
Physical Properties of Dimer Acids  
Chemical Reactions of Dimer Acids  
Reactions of the Double Bonds and at the  $\alpha$ -Carbon Atoms  
Reactions of the Carboxyl Groups to Produce Monomeric Derivatives  
Reactions of the Carboxyl Groups to Produce Polymeric Derivatives  
Commercial Applications of Dimer Acids and Their Derivatives  
Introduction  
Applications of Dimer Acids



Applications of Monomer Acids and Derivatives  
Applications of Trimer Acids and Derivatives  
Applications of Low-Molecular Weight Derivatives of Dimer Acids  
Applications of High-Molecular Weight Dimer Acids Derivatives  
Applications of Other Polymeric Nitrogen Derivatives of Dimer Acids

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Fri, 09 May 2025 08:42:54 +0000