

The Global Market for Biobased & Biodegradable Chemicals, Materials, Polymers, Plastics, Paints, Coatings and Fuels 2022

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Abstracts

There is growing consumer demand and regulatory push for bio-based chemicals, materials, polymers, plastics, paints, coatings and fuels with high performance, good recyclability and biodegradable properties to underpin transition towards more sustainable manufacturing and products. Materials from biomass sources include bulk chemicals, platform chemicals, solvents, polymers, and biocomposites.

The many processes to convert biomass components to value-added products and fuels can be classified broadly as biochemical or thermochemical. In addition, biotechnological processes that rely mainly on plant breeding, fermentation, and conventional enzyme isolation also are used. New bio-based materials that may compete with conventional materials are emerging continually, and the opportunities to use them in existing and novel products are explored in this publication.

Contents include:

In depth market analysis of bio-based chemical feedstocks, biopolymers, bioplastics, natural fibers and lignin, and bio-based coatings and paints.

Global production capacities, market demand and trends

Analysis of bio-based chemical including 11-Aminoundecanoic acid (11-AA), 1,4-Butanediol (1,4-BDO), Dodecanedioic acid (DDDA), Epichlorohydrin (ECH), Ethylene, Furan derivatives, 5-Chloromethylfurfural (5-CMF), 2,5-Furandicarboxylic acid (2,5-FDCA), Furandicarboxylic methyl ester (FDME), Isosorbide, Itaconic acid, 5 Hydroxymethyl furfural (HMF), Lactic acid (D-LA),



Lactic acid – L-lactic acid (L-LA), Lactide, Levoglucosenone, Levulinic acid, Monoethylene glycol (MEG), Monopropylene glycol (MPG), Muconic acid, Naphtha, 1,5-Pentametylenediamine (DN5), 1,3-Propanediol (1,3-PDO), Sebacic acid and Succinic acid.

Analysis of synthetic bio-polymers and bio-plastics market including Polylactic acid (Bio-PLA), Polyethylene terephthalate (Bio-PET), Polytrimethylene terephthalate (Bio-PTT), Polyethylene furanoate (Bio-PEF), Polyamides (Bio-PA), Poly(butylene adipate-co-terephthalate) (Bio-PBAT), Polybutylene succinate (PBS) and copolymers, Polyethylene (Bio-PE), Polypropylene (Bio-PP)

Analysis of naturally produced bio-based polymers including Polyhydroxyalkanoates (PHA), Polysaccharides, Microfibrillated cellulose (MFC), Cellulose nanocrystals, Cellulose nanofibers, Protein-based bioplastics, Algal and fungal.

Analysis of types of natural fibers including plant fibers, animal fibers including alternative leather, wool, silk fiber and down and polysaccharides.

Markets for natural fibers, including composites, aerospace, automotive, construction & building, sports & leisure, textiles, consumer products and packaging.

Production capacities of lignin producers.

In depth analysis of biorefinery lignin production.

Analysis of the market for bio-based, sustainable paints and coatings.

Analysis of types of bio-coatings and paints market. Including Alkyd coatings, Polyurethane coatings, Epoxy coatings, Acrylate resins, Polylactic acid (Bio-PLA), Polyhydroxyalkanoates (PHA), Cellulose, Rosins, Biobased carbon black, Lignin, Edible coatings, Protein-based biomaterials for coatings, Alginate etc.

Profiles of over 770 companies.



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