

BIOAMBER S.A.S.**Foundation**

- 2008

Branches

- Wholesale to customers in bioplastics and renewable chemicals
- Polyurethanes
- Cosmetics, Coatings & Resins
- Plasticizers
- Deicers
- Lubricants
- Solvents
- Food & Flavours

Key bio-based products

- Biosuccinic Acid
- Bio-based 1,4 BDO
- mPBS
- Phthalate-free Plasticizers
- PLA/mPBS blends
- C6 chemicals

**Company Profile**

BioAmber is a next generation chemicals company whose business model of open innovation and partnerships is bringing cost-effective performance materials to market and driving customer innovation in a broad range of applications. Its proprietary technology platform combines industrial biotechnology, an innovative purification process and chemical catalysis to convert renewable feedstocks into chemicals for use in a wide variety of everyday products.

BioAmber is a private, US company with a global presence, based in Minnesota, USA. In addition to its European plant, the only commercial scale plant for biobased succinic acid today, BioAmber is building the world's largest commercial plant for biosuccinic acid in North America (Sarnia, Ontario), together with Mitsui & Co. The Sarnia plant will produce both biosuccinic acid and biobased 1,4 Butanediol (BDO).

Portfolio of Renewable Chemicals

BioAmber offers a portfolio of renewable chemicals based on succinic acid and other C4 chemicals, including 1,4-butanediol (BDO) and esters of succinic acid, as well as a new biopolymer platform based on the modified polybutylene succinate biopolymer (mPBS). mPBS is biodegradable and will be >50% renewable with biobased succinic acid and 100% renewable with biobased 1,4-BDO. mPBS can be used at higher heat distortion temperatures, has better strength and stiffness, and drop-in processability for extrusion and injection moulding.

BioAmber will also use mPBS in a new family of compounded PLA/mPBS resin grades thanks to its joint venture with NatureWorks, which is already offering samples of developmental grades for thermoforming and injection moulding processes. This new family is designed for food service ware applications, expanding the PLA property range in terms of flexibility, toughness, heat resistance and drop-in processability on existing manufacturing equipment. BioAmber is also developing a C6 Platform that will provide biobased adipic acid, bio-caprolactam and bio-HMDA.

mPBS

BioAmber produces modified polybutylene succinate (mPBS), a biodegradable polymer with high heat resistance that feels and performs like high-impact polystyrene, polypropylene or PVC. Use of BioAmber biosuccinic acid in mPBS offers a biopolymer that is not only degradable but also partially renewable. As BioAmber's biobased 1,4 Bio-BDO becomes available, mPBS will be 100% renewable.

Compounded PLA/mPBS

Through BioAmber's joint venture with NatureWorks, a new family of developmental PLA/mPBS compounded resins have been developed for food service ware applications. Based on market interest, further formulated PLA/mPBS solutions will be developed.





Link to Agrobiobase



Suppliers

Plasticisers

The market is moving to replace phthalates with alternative plasticisers where possible, especially in sensitive applications such as children's products. BioAmber has partnered with Lanxess, a leader in specialty non-phthalate plasticisers to develop a new family of biobased succinate plasticizers.

Polyurethanes

BioAmber's biosuccinic acid can be used to replace petroleum based dibasic acids used in polyester polyols for more environmentally friendly polyurethanes that offer performance benefits in specific applications.

Resins and Coatings

Biosuccinic acid can be used to replace adipic acid in polyester coating resins, powder coatings and unsaturated polyester resins (UPR) to provide environmentally-friendly coatings with a lower carbon footprint.

Cosmetics and Personal Care

BioAmber's biosuccinic acid and its esters can be used in wide range of personal care applications; for example, as natural surfactants and emollients.

Deicers

BioAmber's patented biobased succinate salts derived from biosuccinic acid offer environmentally-sound deicing solutions with enhanced corrosion protection.

Foods and Flavours

Succinic acid is used in food applications as a pH regulator and a flavouring agent, among other functionalities. BioAmber's biosuccinic acid offers food and flavours companies a natural alternative to petroleum-derived succinic for enhancing food naturally.

Lubricants

Biosuccinic esters are environmentally-friendly solutions for the lubricants market as base oils and additives in industrial lubricants and metal-working fluids, with improved flowability in cold temperatures and better prevention of oxidation and corrosion.

Solvents

Succinate esters have demonstrated performance in solvents; BioAmber's biosuccinic acid can be used to provide biobased, non-VOC, non-toxic solvents that substitute conventional solvents.



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