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The Global Market for Polyhydroxyalkanoates (PHA)

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Abstracts

Polyhydroxyalkanoates (PHA) are a family of biodegradable polyesters synthesized by various bacteria. They encompass a large variety of bioplastics raw materials made from many different renewable resources. Examples of Polyhydroxyalkanoates are PHB, PHV, PHBV, PHBH etc. They are candidates for substitution of petrochemical non-renewable plastics due to their biodegradable and nontoxic properties. They also possess good mechanical properties, good barrier properties toward oxygen, carbon dioxide and moisture, biocompatibility and versatility.

Main applications of PHA-based materials are in films and rigid packaging, disposable items (e.g. utensils, hygiene products and compostable bags), cosmetics, biomedicine, plastic components, agriculture and to a lesser extent in textiles, water treatments, 3D printing etc. Danimer Scientific, L.L.C. has partnered with Mars Wrigley to develop home compostable food packaging. The first brand Mars Wrigley will introduce as part of this two-year partnership will be SKITTLES in the US. Mars Wrigley's first on-the-shelf offerings are tentatively targeted for late 2021 or early 2022.

Manufacturing capacities of PHA-based materials has increased in recent years from companies such as Danimer, Kaneka, PHAbuilder, Bluepha and this trend is expected to continue due to growing global demand for bioplastics.

Reports contents include:

Market trends and drivers.

Analysis of the PHAs market including demand, production capacities, end user markets and key players.

Applications analysis.

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Global market demand for PHA.

31 company profiles. Companies profiled include Bluepha, CJ CHeilJedang, Danimer Scientific, Kaneka, Nafigate, Newlight Technologies and Tianan Biologic Material Co., Ltd.

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Contents

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List Of Tables

LIST OF TABLES

+44 20 8123 2220
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List Of Figures

LIST OF FIGURES

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