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#### **Biobased Glucaric Acid**

Intermediate for Rennovia's biobased adipic acid

A world scale biobased adipic acid plant will consume about 500 million pounds per year of glucaric acid

Additional addressable global market for glucaric acid predicted to be over \$500 million per year

# **Biobased Adipic Acid**

Global adipic acid market is approximately \$6 billion per year, predicted to grow at 3 to 4 % CAGR to 2022

Adipic acid is used to produce nylon-6,6 engineering resins and fibers, plus polyurethanes, non-phthalate plasticizers, and new polyesters (including biodegradable products)

## Biobased 1,6-Hexanediol (1,6-HDO)

Global 1,6-Hexanediol (1,6-HDO) market is approximately \$500 million per year, predicted to grow at 8 to 9 % CAGR

1,6-HDO is used in polyurethanes, especially in the high-value Coatings, Adhesives, Sealants and Elastomers (CASE) applications, and for diol acrylates and polycarbonate diols for coatings applications

#### **Biobased Hexamethylenediamine (HMD)**

Global Hexamethylenediamine (HMD) market is approximately \$5 billion per year, predicted to grow at 3 to 4 % CAGR to 2022

Major application is as the second monomer for nylon-6,6 (along with adipic acid), for engineering resins and fibers

HMD is also used in specialty engineering resins, and in high value polyurethane applications, especially coatings

$$H_2N$$
  $\sim$   $NH_2$ 

## **Pipeline of Future Products**

Rennovia is leveraging its platform technologies to develop efficient chemical process technology for additional biobased products

Rennovia is establishing partnerships to co-develop and commercialize future products

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