

Product Announcement

EMEROX® Azelaic Acid: The Preferred Alternative to Sebacic Acid

Cincinnati, OH, USA February 15, 2017 - Emery Oleochemicals, a global specialty chemical manufacturer, announces its EMEROX® Azelaic Acid as an alternative to sebacic acid.

EMEROX® Azelaic Acid can be used as an intermediate reactant or directly in formulated products. It is the preferred choice for a broad range of applications including:

- low temperature and polymeric plasticizers,
- nylon and fibers,
- polyamide hot melts,
- polyester films and adhesives,
- urethane elastomers,
- ester-based synthetic lubricants,
- lithium complex greases, and
- corrosion inhibitors for water-based metalworking fluids and engine coolants.

Emery Oleochemicals offers various grades of EMEROX® Azelaic Acid which provide the following benefits to end-product formulators relative to sebacic acid:

- lower melting point which reduces processing time and cost,
- excellent flexibility,
- improved polymer low-temperature impact strength without sacrificing high temperature performance,
- excellent hydrolysis resistance,
- low water absorption,
- high impact resistance,
- improved solubility characteristics,
- lower pour point of esters which improves cold temperature flow, and
- lower molecular weight which produces more ester per pound of acid.

With manufacturing facilities in North America, Europe and Asia, Emery Oleochemicals is backward-integrated, ensuring security of supply for EMEROX® Azelaic Acid. Emery offers a sustainable solution with its use of renewable raw materials as feedstock and green chemistries. Emery Oleochemicals is committed to being your preferred partner for EMEROX® Azelaic Acid as an effective alternative to sebacic acid.

To find out more about Emery Oleochemicals' EMEROX® Azelaic Acid product offering for plastics and lubricants applications, visit the company's related product sections:

Green Polymer Additives: <http://greenpolymeradditives.emeryoleo.com/additives/>

Bio-Lubricants: www.emeryoleo.com/Bio_Lubricants.php

About Emery Oleochemicals Group

Emery Oleochemicals Group is a leading producer of natural-based chemicals made predominantly from natural oils and fats such as plant-based oil and tallow. We offer an extensive product portfolio, including renewable solutions for the Agro Green, Bio-Lubricants, Eco-Friendly Polyols, Green Polymer Additives, Home & Personal Wellness and OleoBasics markets. With revenue of US\$700million (2015), the company is headquartered in Malaysia and has manufacturing plants and Technical Development Centers spanning three continents – North America, Europe and Asia Pacific. Emery Oleochemicals' global operations are supported by a diverse workforce and an extensive global distribution network covering over 50 countries worldwide. For more information, visit www.emeryoleo.com.

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