

IP MARKETPLACE

CONNECTING INNOVATION TO YOUR BUSINESS

TECH OFFER

Eco-friendly Plasticizer For Poly (vinyl chloride)



▶ MORE INFORMATION

MEGA-TREND

- **Chemicals and Materials**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 2**

PATENT/ GRANTED NUMBER

- **MY-151111-A**

▶ TECHNOLOGY OVERVIEW

The present invention disclosed a medium-chain-length poly (3-hydroxyalkanoates) (MCL-PHA) for use as natural based eco-friendly plasticizer for poly (vinyl chloride) (PVC). In the present invention, MCL-PHA was biosynthesized by *pseudomonas putida pga1* via fermentation using oleic acid and palm kernel oil as renewable carbon source. MCL-PHA is a source of green natural polymers which can be used to improve material properties of PVC. Compare with the conventional petrochemical based plasticizer, MCL-PHA would not be hazardous to human health and the environment due to the non-toxic, biodegradable and biocompatible properties.

CONTACT US!

Dr. Lee Ching Shya, RTTP

UMCIE Business Officer

Email: leecs@um.edu.my

Phone: +603 – 7967 7352 / 013-2250151