ΕΛSTΜΛΝ

The results of insight™

Eastman GEM<sup>™</sup> retinyl linoleate

## The beauty is in the process.

Eastman GEM<sup>™</sup> retinyl linoleate offers these benefits over other antiaging ingredients:

- · A high quality ingredient from a green process
  - The Eastman GEM enzymatic process is gentler than a chemical process and does not form unwanted by-products.
  - Eastman GEM<sup>™</sup> retinyl linoleate is a high-purity ingredient with 48% biobased content and an E factor (kg waste/kg product) of 6.
- Ease of formulation
  - Retinyl linoleate is a flowable liquid at room temperature; no need to melt.
  - Available as a pure material without added solvents, oils, or preservatives
  - · Better formulation stability than retinol and a longer shelf life
- Exceptional performance
  - Greater in vitro bioavailability than retinyl palmitate
  - Can be formulated to maximize delivery to skin



Eastman Corporate Headquarters P.O. Box 431 Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626) Other Locations, +(1) 423-229-2000

www.eastman.com/locations

Although the information and recommendations set forth herein are presented in good faith, Eastman Chemical Company ("Eastman") and its subsidiaries make nor representations or warranties as to the completeness or accuracy thereof. You must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. Nothing contained herein is to be construed as a recommendation to use any product, process, equipment, or formulation in conflict with any patent, and we make no representations or warranties, express or implied, that the use thereof will not infringe any patent. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS AND NOTHING HEREIN WAIVES ANY OF THE SELLER'S CONDITIONS OF SALE.

Safety Data Sheets providing safety precautions that should be observed when handling and storing our products are available online or by request. You should obtain and review available material safety information before handling our products. If any materials mentioned are not our products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

© 2017 Eastman. Eastman brands referenced herein are trademarks of Eastman or one of its subsidiaries or are being used under license. The © symbol denotes registered trademark status in the U.S.; marks may also be registered internationally. Non-Eastman brands referenced herein are trademarks of their respective owners.