Printing & Packaging Industrial Coatings

Technical Data Sheet

Laromer[®] HDDA

We create chemistry

Product Description

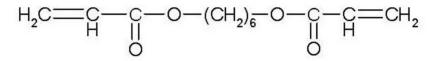
Laromer[®] HDDA is an acrylic acid ester used as a reactive diluent in energy curable coatings, inks, and overprint varnishes, as a feedstock for synthesis, and for manufacturing polymers. It contains two polymerizable acrylate groups per molecule, which enables it to form copolymers.

Key Features & Benefits

Good adhesion
Good flexibility
Excellent diluent

Chemical Structure

Hexanediol diacrylate



Properties

Typical Properties	Appearance Odor Assay (gas chromatography) Acidity, as acrylic acid (DIN EN ISO 2114, method B) Water content (K. Fischer, DIN 51777) Hazen/APHA color number (DIN ISO 6271) Density at 25°C (DIN 51757, method 4.3) Boiling point (DIN EN ISO 3405) Specific heat capacity at 30°C Solidification point (ISO DIS 3841) Refracting index n _D at 20°C (DIN EN ISO 489)	clear liquid ester – like ≥ 90% ≤ 0.05% ≤ 0.05% ≤ 50 1.015 g/cm ³ 107°C (225°F)/0.3 mbar 1.88 kJ/ (kg K) 8 – 11°C (46 -56°F) 1.457
Solubility	of Laromer HDDA in water of water in Laromer [®] HDDA	0.36 g/l insoluble
Compatibility	Can be mixed with most organic solvents.	
	These typical values should not be interpreted as specifications.	

Applications

Laromer[®] HDDA contains two polymerizable acrylate groups per molecule, which enables it to form copolymers of, for example, acrylic or methacrylic acids and their salts, amides, esters, vinyl acetate, and styrene. Readily entering into addition reactions, it is also an important feedstock for chemical synthesis.

The polymerizable groups allow the product to be used as a crosslinking component in energy curable coatings, inks, and overprint varnishes where it also acts as a reactive diluent. During curing, Laromer[®] HDDA becomes part of the polymer structure.

Laromer® HDDA is recommended for applications such as:

- Pigment dispersions
- · Printing inks for flexographic, digital, or silk-screen applications
- Overprint varnishes for commercial or publication applications
- Interior/exterior general industrial metal coating applications
- · Interior/exterior wood coatings for floor, furniture, or millwork applications

Processing

Laromer[®] HDDA can be polymerized by the usual block, solution, suspension, and emulsion techniques. Removal of the stabilizer beforehand is generally not necessary. An excess of initiator can counteract its effect if needed.

Safety

General The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Laromer[®] HDDA.

Important

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further, the descriptions, designs, data, and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.

Laromer is a registered trademark of BASF Group.

© BASF Corporation, 2016



Good Chemistry at Work

BASF Corporation is fully committed to the Responsible Care[®] initiative in the USA, Canada, and Mexico. For more information on Responsible Care[®] go to: U.S.: www.basf.us/responsiblecare_usa Canada: www.basf.us/responsiblecare_canada México: www.basf.us/responsiblecare_mexico

U.S & Canada

BASF Corporation 24710 W Eleven Mile Road Southfield, MI 48033 ph: 1(800) 231-7868 fax:1(800) 392-7429 Email: Custserv_charlotte@basf.com Email: edtech_info@basf.com www.basf.us/dpsolutions

Mexico

BASF Mexicana, S.A. de C.V. Av. Insurgentes Sur # 975 Col. Ciudad de los Deportes C.P. 03710 Mexico, D.F. Phone: (52-55) 5325-2756 Fax: (52-55) 5723-3011