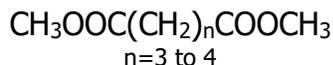


DBE™-LVP esters

Product Description

DBE™-LVP esters are a mixed aliphatic ester fluid designed for consumer product applications. Because of its extremely low vapor pressure, DBE™-LVP esters meet the consumer products LVP-VOC exemption criteria established by CARB for consumer and institutional products and the federal VOC exemption criteria for consumer products per the EPA 40 CFR 59.203 (f) 1. This means that when DBE™-LVP esters are used in a formulation, they do not count towards the total VOC content of the regulated consumer product. In addition to low volatility, DBE™-LVP esters exhibit a number of other features desirable for consumer and institutional product applications. They are non-flammable, readily biodegradable, non-corrosive and have a mild odor. They are readily soluble in alcohols, ketones, ethers and many hydrocarbons, but only slightly soluble in water and higher paraffins. Formulations with water can be achieved, however, using emulsion techniques.



Composition: Dimethyl Adipate/
Dimethyl Glutarate

CAS No.: 627-93-0/1119-40-0

EINECS No.: 211020 /2142772

Form: Liquid

NAFTA* Country of Origin:
USA NAFTA* Preference Criterion: B

HS CODE: 38.24.90

Applications

DBE™-LVP esters may be used in a variety of consumer product applications where the solvency power of an organic is desired or required. Applications can include:

- Paint and graffiti removers
- Nail polish removers
- Hand cleaners
- Adhesives, sealants and caulks
- Automotive cleaning products
- Bathroom and tile cleaners
- General purpose cleaners
- Spot removers
- Floor maintenance products

We invite you to contact us for additional assistance with your specific applications.

General Information

Average Molecular Weight	163
Density, 25°C, lb/gal	9.0
Vapor Pressure, mm Hg @ 20°C	0.04
Distillation Range, °C	210 - 225
Melting Point, °C	-13
Solubility in Water, wt% @ 20°C	4.2
Water solubility in DBE™-LVP esters, wt% @ 20°C	2.9
Flash Point – TCC, °C	104
Autoignition Temperature, °C	375
Viscosity @ 25°C, cst	2.5
Kb Value:	55



Solvent Properties

Hansen Solubility Parameters	
Nonpolar	8.3
Polar	2.2
Hydrogen bonding	4.7

Chemical Inventory Status – Australian AICS, China-IECSC, Japan-ENCS, Korea-ECL, Europe-EINECS, Canada-DSL, United States - TSCA, New Zealand-NZIoC, and Philippines-PICCS.

Shelf-life (Re-test) Statement: An approximate shelf life of DBE™-LVP esters is 2 years, if the product is stored in the original container, kept tightly closed and dry, in a well ventilated location. Because storage and local ambient conditions vary and INVISTA has no control over the practices, procedures and conditions at your or other locations, the shelf life estimate provided here should be used as guidance only. It is not provided as a guarantee of any shelf life.

Shipping and Handling

DBE™-LVP esters are readily available in bulk or drum quantities. It may be stored or handled using equipment constructed of mild steel or aluminum. While it is compatible with many plastics and elastomers, prospective users are encouraged to contact INVISTA for a separate technical sheet on compatibility information with resins and elastomers. All components of DBE™-LVP esters are included on the TSCA Chemical Inventory List. It is recommended product be stored in a non-translucent (opaque) container.

Shipping Name: Dibasic ester mixture
 Freight Classification: Resin solvents, NOIBN
 DOT Classification: Not regulated

Packages

DBE™-LVP esters are available in the following bulk and drum quantities:

Tank car: 170,000 lbs. net wt.
 Tank Truck: 40,000 – 45,000 lbs. net wt.
 Drum: 485 lbs. net wt.

For Samples and Information:

www.DBE.INVISTA.com

This Product Data Sheet contains selected information about a specific INVISTA product, or group of products, and particular uses of the same. It relates only to the identified product and any identified uses, and is based on information available as of the date hereof. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. **THIS PRODUCT DATA SHEET DOES NOT CONTAIN A COMPLETE STATEMENT OF, AND DOES NOT CONSTITUTE A REPRESENTATION, WARRANTY OR GUARANTY WITH REGARD TO, A PRODUCT'S CHARACTERISTICS, USES, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR THE SUITABILITY, SAFETY, EFFICACY, HAZARDS OR HEALTH EFFECTS OF THE PRODUCT, WHETHER USED SINGULARLY OR IN COMBINATION WITH ANY OTHER PRODUCT, EXCEPT TO THE EXTENT REQUIRED BY THE RELEVANT LAW AND REGULATIONS.** Purchasers and users of the product are responsible for determining that the product is suitable for the intended use and that their workers and the general public are advised of any risks resulting from such use. Nothing contained in this Product Data Sheet shall be construed to modify any of the commercial terms pursuant to which the product was sold by INVISTA including, but not limited to, terms and conditions addressing each party's respective rights and obligations with regard to warranties, remedies and indemnification.

If purchasers and users believe or have reason to believe that the Product Data Sheet or other information provided to them by INVISTA is inaccurate or in any way insufficient for any purpose, they should immediately notify INVISTA of the same, and of the basis for their belief (for example, studies, data, reports of incidents, etc.) so that INVISTA can determine whether modification or supplementation of the Product Data Sheet, or other measures, are appropriate. Failure of purchasers and users to timely provide such notice shall be deemed a waiver by purchasers and users of any and all claims, demands or causes of action, including causes of action based on an alleged failure to warn, for personal injury or damage to the environment or property arising from or attributable to the use of product.

This disclaimer shall be effective to the extent allowed by law. Should any provision be deemed to be ineffective or unenforceable, that provision shall be deemed severed from the disclaimer and the remaining provisions shall continue to have full force and effect.

INVISTA and DBE™ are trademarks of INVISTA. Copyright© 2014 INVISTA. All rights reserved.

