Technical Data Sheet

Eastman Texanol™ Ester Alcohol

CAS No. 25265-77-4

Application/Uses

- Coatings - Architectural
- Coatings - Automotive OEM (electrodeposition primers)
- Coatings - Can and Coil
- Coatings - Floor Polishes
- Coatings - General Industrial
- Coatings - Industrial Maintenance and Marine
- Coatings - Industrial Wood
- Coatings - Transportation
- Graphic Arts - Printing Inks (Lithographic and Letterpress oil-based inks)
- Oil Field Chemical - Drilling Muds/Frothing Agent/Ore Flotation
- Reactive Intermediate - Ester Derivatives for Plasticizers

Key Attributes

- Ease of addition to latex paints
- Efficient coalescent
- Excellent hydrolytic stability
- Inert - Nonfood use
- Low flammability rating
- Low freezing point
- Low water solubility
- LVP-VOC
- Non-HAP
- Non-SARA
- Not classified as a VOC per China State Environmental Protection Agency
- Not classified as a VOC per European Union Directive 2004/42/EC
- Not classified as a VOC per European Union Solvent Emissions Directive
- REACH compliant
- Readily biodegradable
- Recognized by China with "Green Label II" certificate (low toxicity, non-VOC and environmental friendly biodegradable product)

Product Description

Eastman Texanol™ ester alcohol is the premier coalescent for latex paints. It performs well in all types of latex paints, in a variety of weather conditions, and over substrates with different levels of porosity. Eastman Texanol™ ester alcohol provides the highest level of film integrity at low levels of coalescent, enhancing the performance properties of the paint including low temperature coalescence, touch-up, scrub resistance, washability, color development, thermal flexibility, and resistance to mudcracking. Eastman Texanol™; ester alcohol also enhances thickening efficiency when used with associative thickeners.

Eastman Texanol™ ester alcohol also works well in a variety of other applications. It is an ideal choice as a retarder solvent for use in coil coatings and high-bake enamels. Its unique balance of properties also makes it useful for a variety of chemical specialty applications such as ore flotation / frothing, oil-drilling muds, wood preservative carriers, and floor polishes.

With a boiling point of 254°C, (vapor pressure 0.01 kPa @ 20°C), Eastman Texanol ester alcohol is not classified as a VOC according to European Union Decopaint Directive 2004/42/EC (commonly referred to as the Decopaint Directive); European Union Solvent Emissions Directive); and the China State Environmental Protection agency. Due to its non-VOC status, low toxicity, and biodegradability, Eastman Texanol™ ester alcohol has been awarded Green Label Type II certificate in China by the China Environmental United Certification Co. Ltd. (CEC), a wholly-owned subsidiary of the State Environmental Protection Administration of China (SEPA).

The chemical substances for this product are listed as Inert Ingredients Permitted for Use in

Nonfood Use Pesticide Products under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). For details on specific permissions, click here.

Typical Properties

Property	Typical Value, Units
Acidity as Acetic Acid	0.05 wt % max.
Assay	98.5 wt % min.
Autoignition Temperature	393°C (739°F)
Boiling Point @ 760 mm Hg	254°C (489°F)
Color Pt-Co	10 max.
Critical Pressure	19.9 ATM
Critical Temperature	391.9°C
Critical Volume	718.6 ml/g·mol
Electrical Resistance	>20 Megohms
Empirical Formula	$C_{12}H_{24}O_3$
Evaporation Rate	
(n-butyl acetate = 1)	0.002
(ether = 1)	6051
Expansion Coefficient, per °C @ 20°C	0.001
Flash Point Cleveland Open Cup	120°C (248°F)
Freezing Point	-50°C (-58°F)
Hansen Solubility Parameters	
Nonpolar	7.4
Polar	3
Hydrogen Bonding	4.8
Total	9.3
Heat of Combustion	-1607.7 kcal/g·mol
Heat of Vaporization	15196 cal/g·mol
Liquid Heat Capacity @ 25°C	110.74 cal/(g*mol)(°C)
Liquid Viscosity @ 20°C	13.5 cP (mPa·s)
Molecular Weight	216.3
Nitrocellulose Solubility	Active
Refractive Index @ 20°C	1.4423
Solubility	
in Water, @ 20°C	0.1%
Water in, @ 20°C	3.0%
Specific Gravity @ 20°C/20°C	0.95
Surface Tension @ 20°C	28.9 dynes/cm
Vapor Density (air = 1)	7.5
Vapor Pressure	
@ 20°C	0.0013 KPa (0.01 mm Hg)

@ 25°C	0.00173 KPa
@ 55°C	0.033 KPa
Wt/Vol @ 20°C	0.95 kg/L (7.9 lb/gal)

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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