

Technical Data Sheet

Applications

- Automotive
- Flooring
- General industrial coatings
- Graphic arts
- Paints & coatings
- Vinyl plastisols

Product Description

Eastman Effusion™ plasticizer is a high solvating non-phthalate plasticizer that provides lower plastisol viscosity, excellent low temperature flexibility and fusion rates similar to typical high solvating plasticizers in vinyl formulations. As a non-phthalate plasticizer for waterborne adhesives, it lowers the systems Tg and provides comparable viscosity response to currently used plasticizers.

Typical Properties

Property	Typical Value, Units
General	
Acidity (wt%)	0.01 max.
Color Pt-Co	20 max.
Refractive Index @ 25°C	1.495
Specific Gravity @ 20°C/20°C	1.045
Boiling Point	646 °F (341 °C)
Flash Point Setaflash Closed Cup	385 °F (196 °C)
Melting Point	<68 °F (<20 °C)
Vapor Pressure @ 20°C	<0.0003 torr (<0.038 Pa)
Viscosity @ 25°C	16 cP (16 mPa·s)
Wt/Vol @ 20°C	8.72 lb/gal (1.04 kg/L)

Handling Precautions

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet. This information sheet can be downloaded from our web site or requested from the nearest Eastman office and should be consulted before handling this product.

Storage

Eastman Effusion™ plasticizer can begin to crystallize and freeze at or below <20°C (68°F) and therefore requires heated storage tanks, heat-traced transfer lines, and pumps to prevent freezing and to facilitate transferring during cold weather. A storage temperature of 25°-27°C (77°-80°F) is recommended.

In colder climates, it is recommended that storage tanks be insulated and pumps and transfer piping be insulated and heat traced with self-regulating low-temperature heating cable. Insulating these storage tanks will also aid in conserving energy. When sizing transfer lines and pumps, the higher resistance to flow of this plasticizer should be

taken into account. If moisture content of the ester is critical, the tank should be vented to the atmosphere through a desiccant dryer. An overpressure/vacuum relief device should be provided for the tank.

In the event the plasticizer partially or completely solidifies or, the storage tank, transfer lines, or pump containing the material should be heated gradually to prevent discoloration and or degradation of the plasticizer. The temperature should be raised a few degrees at a time to 30-37°C (87-97°F) and allowed to mix for 24 hours to ensure all solids and/or crystals have melted. It is important to understand that the composition and performance of this material will not change if it goes through a freeze/thaw cycle.

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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