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# Product Data Sheet

## Staybelite® Ester 10

### Synthetic Resin

**Number 4333-1**

#### Product Description and Use

**Staybelite® Ester 10** *synthetic resin* is the glycerol ester of partially hydrogenated wood rosin. It is a pale, thermoplastic resin with excellent resistance to oxidation and discoloration. It has found wide acceptance as a tackifying resin for many adhesive applications, particularly pressure sensitive and emulsion types. In general, it is useful where there is need for pale, nonoxidizing, and color stable resin.

#### Applications

- Used in solvent, hot melt, and emulsion adhesives based on thermoplastic and elastomeric materials
- Tackifier in emulsion form for natural rubber, SBR, and neoprene latex in aqueous base adhesives
- Tackifier for natural rubber, SBR, polyisobutylene, and methacrylate resins in industrial tape uses
- Tackifier for surgical tape and in EVA resin-based hot melt adhesives
- Hot melt applied barrier coatings, chlorinated rubber finishes, and various protective coatings compositions
- Component of depilatory wax compounds

#### Benefits

- Pale
- Tacky
- Oxidation resistant
- Emulsifiable
- Wide range of solubility and compatibility
- Broad regulatory approval

#### General Sales Specifications

Softening Point, Pinova drop method, °C .....	80-88
Color, USDA rosin scale, maximum.....	N
Acid Number, maximum.....	10

## Typical Properties

Softening Point, Ring & Ball, °C .....	75
Color, USDA rosin scale .....	WW
Acid Number .....	5 - 6
Hydroxyl content, % .....	< 1
Density at 25°C, lb/gal (kg/l) .....	8.9 (1.07)

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## Packaging

<u>Package</u>	<u>Form</u>	<u>Net Weight</u>
Bag, multi-wall, kraft	Pastilles	50 lbs, 22.68 kgs
Drum, galvanized	Solid	500 lbs, 226.8 kgs
Bulk, tank truck	Molten	Varies

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## Regulatory/Classifications

CAS No.	65997-13-9	US DOT: Not regulated
US FDA:	21 CFR 175.105	21 CFR 176.210
	21 CFR 175.125	21 CFR 177.1200
	21 CFR 175.300	21 CFR 177.1210
	21 CFR 175.320	21 CFR 177.1400
	21 CFR 175.380	21 CFR 177.2600
	21 CFR 175.390	21 CFR 178.3120
	21 CFR 176.170	21 CFR 178.3800
	21 CFR 176.180	21 CFR 178.3850
	21 CFR 176.200	21 CFR 178.3870

Other regulatory information available on request.

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## Storage and Inventory Control

Pastillated or flaked resins may fuse, block, or lump during hot weather months, if stored near sources of heat, if double or triple stacked, or if stored for prolonged periods of time. These forms of resin are prone to gradual oxidation, some more so than others. This could result in darkening and/or could have an adverse effect on solubility in organic solvents. Care should be given to minimize opportunities for product oxidation throughout processing. Accordingly, it is strongly recommended that proper storage conditions and strict control of inventory be observed at all times, taking care that the oldest material is used first.

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## Product Safety

Read and understand the Material Safety Data Sheet before using this product.

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