

HALLSTAR® TRB

Adhesion and sealing enhancer for resins

Hallstar® TRB (INCI: Tribenzoin) is a white crystalline solid with little to no odor. The triester of glycerin and benzoic acid is insoluble in water and commonly used as an emollient, polymerization initiator, cross-linking agent and plasticizer for cellulosic resins found in nail polish and nail glue.

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HallStar® TRB enhances the adhesion and sealing strength of resins, and has high compatibility with many different polymers. By undergoing a photopolymerization reaction, the benzoate ester can help cure and harden nail polish to create durable and glossy finishes, contributing to the polish's longevity, chip resistance and overall appearance. It also works well as a plasticizer for long-lasting lip products because of its clean, unobtrusive flavoring. HallStar® TRB demonstrates ultraviolet resistance and excellent thermal degradation stability, and is thus regarded as an environmental protection plasticizer.

Applications:

- Nail polish
- Nail glue
- Long lasting eye shadows
- Long lasting color lip products

Product is supplied in 163 kg fiber drums.

Property	Typical Value
Appearance	White crystalline, solid particles
Molten appearance	Clear liquid
Ester content	≥ 99.0%
Diester content	≤ 5.0%
Acid value	0.28 mg KOG/g
Color HAZEN	≤ 200
Moisture	≤ 0.1%
Melting range	70°C - 73°C



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