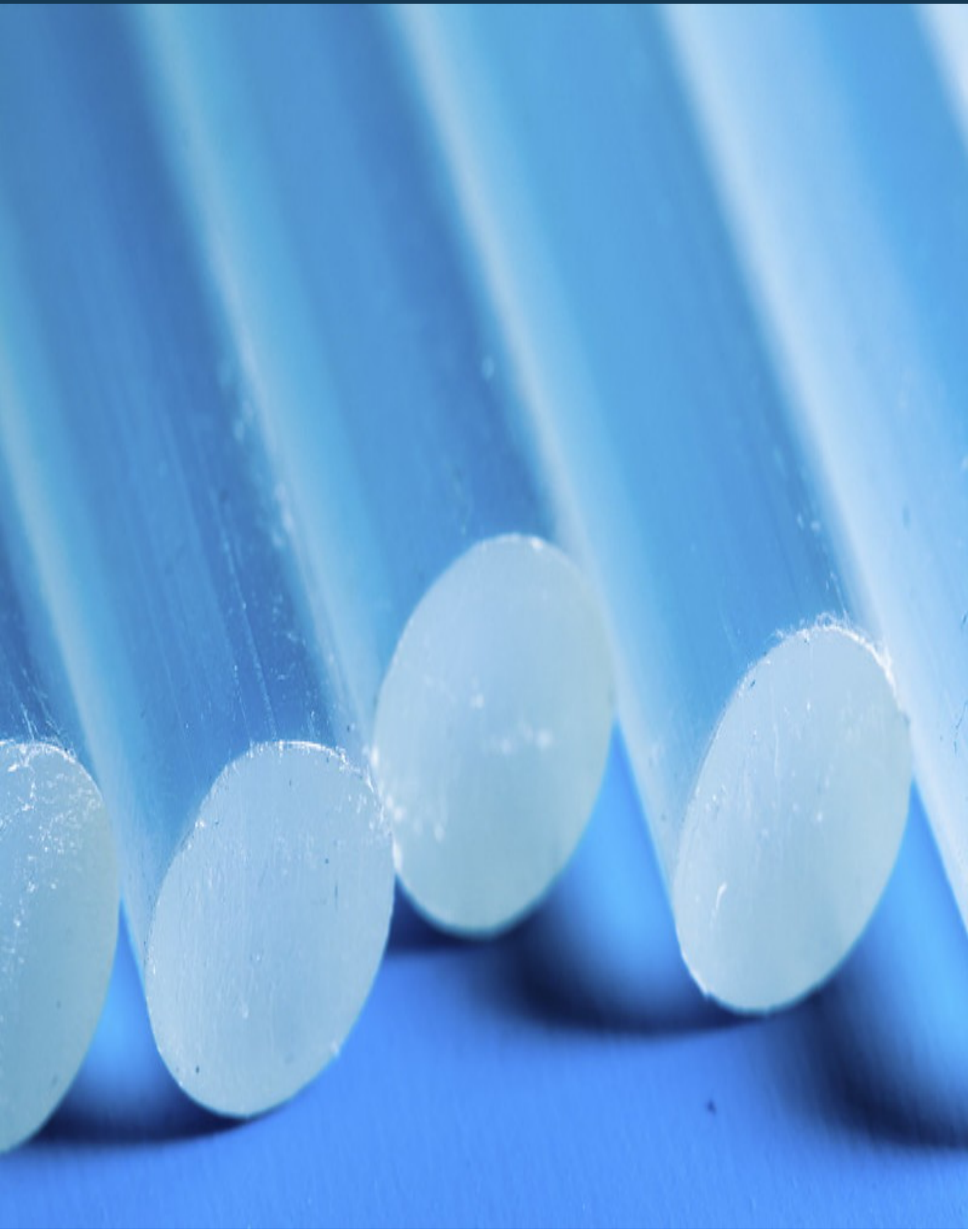


PLASTICIZER-GLYCEROL TRIBENZOATE



Introduction

Glycerol tribenzoate is a very important solid plasticizer. It has similar plasticity as dicyclohexyl phthalate on vinyl resin and acrylic resin. It can reduce viscosity during heating, enhanced adhesion or thermal bonding strength. When it used in cellulose acetate with dosage 20% , it can be obtained with elastic thin film. When GTB dosage is 25%-50% , it can have good compatibility with many polymers.

Applications

- 1 It is used in PVC, Polyvinyl acetate, methyl acrylate, nitrocellulose, cellulose acetate butyrate, ethyl cellulose, polystyrene etc.
- 2 It is especially recommended for use in heat seal applications.
- 3 Glycerol tribenzoate is used as a plasticizer in ink and adhesive applications.
- 4 Also useful for nail lacquer formulations.

Benefits

- 1 It has Good compatibility with many polymers.
- 2 It Enhance the adhesion and sealing strength.
- 3 As a new environmental protection solid plasticizer.
- 4 Ultraviolet resistance.
- 5 Excellent thermal degradation stability.



Specifications

Test	Specification	Test Method
Appearance	Form: Crystalline powder/granules Colour: White	Visual
Appearance at 20 Deg C	Off-white coloured flakes or granulate	Visual
Appearance at 80 Deg C	Colourless to yellowish liquid	Visual
Purity	95 % min.	By AAS
Melting Range	68 - 72 Deg C	Melting point apparatus (Open tube capillary method)
Acid Value (mg KOH/g)	2 max.	Titration
Saponification Value (mg KOH/g)	396-436	Titration

Product FDA Status

Glyceryl Tribenzoate is approved for use in food contact polymer as per the following chapter headings

Title	21 - Food And Drugs
Chapter	I - Food And Drug Administration, Department Of Health And Human Services
Sub Chapter	B - Food For Human Consumption
Part	175 - Indirect Food Additives: Adhesives And Components Of Coatings
Sub Part	B - Substances for Use Only as Components of Adhesives
Section	175.105 - Adhesives.

Title	21 - Food And Drugs
Chapter	I - Food And Drug Administration, Department Of Health And Human Services
Sub Chapter	B - Food For Human Consumption
Part	176 - Indirect Food Additives: Paper And Paperboard Components
Sub Part	B - Substances For Use Only As Components Of Paper And Paperboard
Section	176.180 - Components Of Paper And Paperboard In Contact With Dry Food.



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