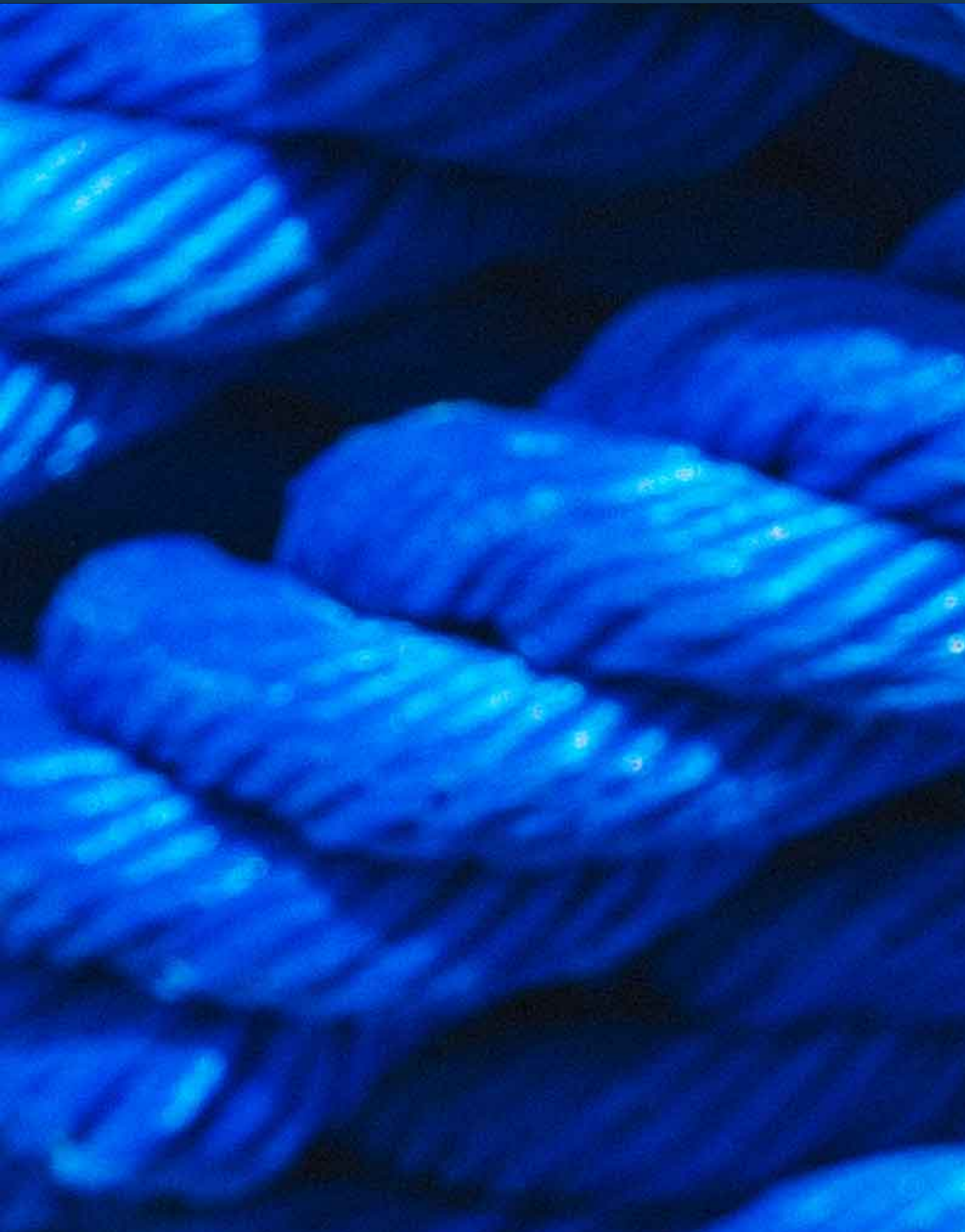


SUCROSE BENZOATE IN NAIL CARE



Introduction

Sucrose benzoate is a stable, odourless and glassy solid or white powder. Sucrose benzoate is a US FDA approved Food grade plasticizer. It has excellent ultraviolet light stability. Sucrose Benzoate is used as an functional additive and an enamel agent. It is the main addition component of nail polish to improve the brightness, film adhesion, water resistance,abrasion resistance and hardness of nail polish film.

Applications

- 1 It is used in nail polish and Nail Top Coat.
- 2 Used as modification agent for membrane resin.
- 3 Used for dispersion of pigment.

Benefits

- 1 Improve the brightness, lustre, film adhesion, hardness of nail polish film.
- 2 Reduces shrinkage and viscosity
- 3 Fills in cracks to instantly strengthen and reinforce nails.
- 4 Stops peeling and seals the nail plate and bonds layers together.
- 5 Improves water resistance and glossiness
- 6 Detergent Resistance.
- 7 It maintains high gloss as compared to other inorganic fillers



1.0 Specifications

Test	Specification	Test Method
Appearance	Crystalline powder	Visual
Hazen colour value [50 % w/v in Xylene]	< 50	Colorimetry
Turbidity	> 85 %	Turbidity meter
Acidity (As Benzoic acid)	< 0.3 %	Titration
Volatiles (o-xylene)	< 1.5 %	Oven drying
Basicity	< 1.5 meq/g	Titration
Refractive Index nD20	Approx. 1.577 nD20	Refractometry
Specific Gravity at 25 °C	Approx. 1.25 g/mol	Pycnometer
Iodine Number	0.01 %	Titration
Softening Range	Approx. 93 - 98 °C	Ball and Ring Method

2.0 Product FDA Status

Sucrose Benzoate 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 (Continued)
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.

3.0 Some Known Formulation of Sucrose benzoate

Rapid Dry Top Coat

Ingredients	% Composition
Sucrose benzoate	< 5.0
Ethyl acetate	≤30.0
Iso propyl alcohol	≤25.0
Juniper, juniperus sabina, ext.	≤15.0
Butyl acetate	≤10.0
Propyl acetate	≤15.0
Heptane	≤5.0
Triphenyl phosphate	≤5.0
Nitrocellulose	≤5.0
Dibutyl phthalate	≤1.0
Camphor	≤1.0
Acrylate copolymer	< 5.0

EzFlow Trugel Basecoat

Ingredients	% Composition
Sucrose benzoate	5 - 15
Tetrahydrofurfuryl methacrylate	10 - 20
Isobornyl acrylate	1 - 10
Benzoyl isopropanol	1 - 10
Hydroxycyclohexyl phenylketone	1 - 5

NN Super Fast Top Coat

Ingredients	% Composition
Sucrose benzoate	1-5
Ethyl acetate	20-40
Butyl acetate	20-30
Iso propyl alcohol	10-30
Cellulose acetate butyrate	10-30
Ethanol	1-5
Nitrocellulose	1-5
Phosphorous acid	1-5
Trimethyl pentanediol di-isobutyrate	1-5

Out The Door Topcoat

Ingredients	% Composition
Sucrose benzoate	1-5
Ethyl acetate	35-40
Ethanol	15-20
Butyl acetate	15-20
Cellulose acetate butyrate	10-15
Acrylates copolymer	1-5
Trimethyl pentanediol di-isobutyrate	1-5
Triphenyl phosphate	1-5
Nitrocellulose	1-5
Isopropyl acetate	<1
2,4-dihydroxybenzophenone	<1
Dimethyl silicone /dimethicone	<1
Solvent violet 13	<1
Acid blue 9	<1

INM Out The Door Top Coat

Ingredients	% Composition
Sucrose benzoate	NA

Ethyl acetate	NA
Butyl acetate	NA
Iso propyl alcohol	NA
Nitrocellulose	NA
Ethanol	NA
Trimethyl pentanediol di-isobutyrate	NA
Phosphorous acid	NA
Cellulose acetate butyrate	NA

Qtica Nail Growth Stimulator

Ingredients	% Composition
Sucrose benzoate	NA
Nitrocellulose	NA
Iso propyl alcohol	NA
Heptane	NA
Butyl acetate	NA
Ethyl acetate	NA
Camphor	NA
Dibutyl phthalate	NA
Propyl acetate	NA

IBD Just Gel Base Coat

Ingredients	% Composition
Sucrose benzoate	5 - 15
Tetrahydrofurfuryl methacrylate	10 - 20
Tetrahydrofurfuryl methacrylate	1 - 10
Benzoyl isopropanol	1 - 10
Hydroxycyclohexyl phenylketone	1 - 5

IBD Gelac Top Coat

Ingredients	% Composition
Nonylene biscarbamate	35 - 45
Isobornyl acrylate	25 - 35
Hydroxycyclohexyl phenylketone	1 - 10
Butyl acetate	1 - 10
Cellulose acetate butyrate	1 - 5
Trimethyl pentanediol di-isobutyrate	<1
Benzophenone-1	<1
Sucrose benzoate	15 - 25

Super Shiny

Ingredients	% Composition
Butyl acetate	<35
Toluene	25-30
Nitrocellulose	<15
Ethyl acetate	<10
Dibutyl phthalate	5-10
Iso propyl alcohol	5-10
Tosylamide/formaldehyde resin	<5
Sucrose benzoate	<5
Sucrose acetate isobutyrate	<5
Butyl benzyl phthalate	<5
Camphor	-

Opi Rapidry Top Coat

Ingredients	% Composition
Ethyl acetate	<=35.0
Iso propyl alcohol	<=30.0
Cellulose acetate butyrate	<=15.0
Butyl acetate	<=15.0
Propyl acetate	<=10.0
Heptane	<=5.0
Acrylate copolymer	<=5.0
Sucrose benzoate	<=5.0
Triphenyl phosphate	<=5.0
2,4-dihydroxybenzophenone	<=1.0
Solvent violet 13	<=1.0

Rapidry Top Coat

Ingredients	% Composition
Ethyl acetate	≤30
Iso propyl alcohol	≤25.0
Juniper, juniperus sabina, ext.	≤15.0
Butyl acetate	≤10.0
Propyl acetate	≤15.0
Heptane	≤5.0
Sucrose benzoate	≤5.0
Triphenyl phosphate	≤5.0
Nitrocellulose	≤5.0
Dibutyl phthalate	≤1.0

Camphor	≤1.0
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DESIGNER SERIES TOP COAT

Ingredients	% Composition
Ethyl acetate	15-40 %
Butyl acetate	15-40 %
Ethanol	10-30 %
Cellulose acetate butyrate	10-30 %
Acrylate copolymer	1-5 %
Triphenyl phosphate	1-5 %
Sucrose benzoate	1-5 %
Diamond	0.1-1 %
Solvent violet 13	0.1-1 %

NUREVOLUTION NAIL POLISH

Ingredients	% Composition
Butyl acetate	30-40
Tetrahydrofurfuryl methacrylate	20
Phosphine oxide	2-5
Hydroxycyclohexyl phenylketone	2-5
Sucrose benzoate	2-5
Cellulose acetate butyrate	1-4
Propylene carbonate	0.1-1

SUPERNAIL PROGEL BASE COAT

Ingredients	% Composition
Tetrahydrofurfuryl methacrylate	10-20
Sucrose benzoate	5 - 15
Isobornyl acrylate	1-10
Benzoyl isopropanol	1-10
Hydroxycyclohexyl phenylketone	1-5

4.0 Packing Details

		Bag/Drum	Per Pallet	Per Container
1) Bulk		15kg HDPE Bag	20g Bags	10mt
2)Small	Solid Bag/Drum	Drum/Box	-	-
		Liquid - Bottle/Carboy	25kg aluminium Bottle	-
3)Micronized		10kg HDPE Bag	20 Bag	6mt

5.0 Product Shelf Life

Chemically Sucrose benzoate has an active shelf life of 3 years from date of Manufacture. Kindly do not stack beyond fix the standard packing.



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