

## Opatint® Product Information

Opatint is a custom, one-step color solution to improve quality and process efficiency in soft and hard gelatin capsule as well as gummy manufacture. Opatint liquid dispersion is a fully-formulated product for the coloring of soft and hard gelatin capsules used in the pharmaceutical and dietary supplement industries, or for food and confectionery applications.

The components used to color Opatint liquid dispersions are FDA approved FD&C Dye and Lake, or non-synthetic pigments (derived from natural sources) in a liquid medium which includes glycerin, various oils, propylene glycol, water, or hydro-colloid dispersions.

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## Applications

- Opatint color concentrate is specifically customized to improve process efficiency and consistency of coloring of soft-gelatin and hard-gelatin capsules and gummies.

### Features

- Fully formulated, simply pour and use
- Batch-to-batch color reproducibility is assured, with each formula tested to meet established color specifications
- Liquid system prevents airborne powder cross contamination, helping to keep work areas clean.
- Pigmented and clear systems are available

### Benefits

- Increased manufacturing efficiency
- Liquid system results in better color intensity compared to dry powder and reduces problems of poor pigment dispersion (i.e., hot spots)
- Reduces clean up time
- Ability to differentiate product for improved patient safety and brand recognition

## Regulatory

- Acceptable for use in pharmaceutical and dietary supplement dosage forms, or for food and confectionery applications.
- The components used to color Opatint liquid dispersions are FDA approved FD&C Dye and Lake, or pigments of a natural origin in a liquid vehicle base which includes glycerin, various oils, propylene glycol, water or hydro-colloid dispersions.

## Packaging

- Blow molded natural color resin HDPE bottles with fill volume capacity of 1 US Pint (500 mL) to 1 US Gallon (4 L).

## Recommended Storage Conditions

- Seal container tightly.
- Keep below 30°C / 80°F; not more than 65% relative humidity.

## Re-evaluation Period (Warranty)

- Shelf life is 730 days from date of manufacture (depending on pigments used). Recommended tests for re-evaluation include: effectiveness of reconstitution, color difference, dispersion, pH, specific gravity, and micro testing.

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