

## THIXCIN<sup>®</sup> R PC

### Non-animal Origin Rheological Additive For Cosmetics And Toiletries

#### GENERAL INFORMATION

**THIXCIN R PC** is a non-hygroscopic derivative of castor oil that imparts a high degree of thixotropic thickening in cosmetics mineral, vegetable and silicones oils, as well as low-polarity aliphatic solvents.

**THIXCIN R PC** provides thixotropy and imparts good pay-off in stick products; improves product stability when used in the oil phase of emulsions; and can be used as a binder in pressed powder formulations.

#### INCI NAME

Trihydroxystearin

#### CHEMICAL & PHYSICAL PROPERTIES

Appearance	White to light yellow powder
Acid Value	Max. 3.0
%, Heavy metals	Max. 0.001
Hydroxyl Value	154.0 – 165.0
Iodine Value	Max. 4.0
+325 Mesh Residue, % (retain)	Max. 1.0
Saponification Value	176.0 – 182.0
Melting Point	85.0 – 88.0 °C

These are typical properties not to be used for specification purposes

#### APPLICATIONS

- Creams and Lotions
- Eye Pencils & Sticks
- Eye Shadow
- Mascara
- Lip Gloss
- Lipstick
- Lip Balm
- Sun Care Products
- Nail Polish

#### KEY PROPERTIES

- Adds thixotropic body and controls viscosity
- Reduces settling of pigments and extenders
- Produces optimum flow
- Enhances levelling
- Improves stick pay-off
- Provides binding in pressed powders
- Improves compatibility

#### INCORPORATION

**THIXCIN R PC** should be added to the emulsion's oil phase or, in non-emulsion-based formulations, at the beginning of the dispersion process, preferably by pre-mixing the solvent or oil for 5 minutes before other components are added.

**THIXCIN R PC** should be subjected to as much shear as possible during processing to develop its full properties. However, when using **THIXCIN R PC**, an incorporation temperature range of 55-65°C must be observed; below 55°C, thixotropy will not develop; above 65°C, soft gel-like particles may appear on cooling the formulation. The presence of higher-polarity oils and solvents will lower this upper temperature limit. To avoid the particles forming, continuous stirring should be maintained until the product has cooled to below 45°C.

Incorporation of **THIXCIN R PC** into dry systems is by normal powder blending techniques

#### LEVELS OF USE

Typical addition levels are 0.2 to 0.8 % **THIXCIN R PC** by weight of the system (or oil phase in emulsions), depending upon the rheological properties required.

In pressed powders, tablets and granules 0.5 to 2.0 % should provide adequate binding.

#### HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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### STORAGE RECOMMENDATIONS

THIXCIN R PC should be kept in a cool, dry location. Avoid stacking pallets

### SHELF LIFE

THIXCIN R PC has a minimum shelf life of 4 (four) years from date of manufacture.

### QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

### SUSTAINABILITY

THIXCIN R PC is a raw material approved by Ecocert Greenlife in accordance with the ECOCERT standard for Natural and Organic Cosmetics.

THIXCIN R PC is a raw material approved by Ecocert Greenlife in accordance with the COSMOS Standard.



**COSMOS  
APPROVED**

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