



ZENOLIN®

Zenolin® is low odor natural condensation polymer of castor oil, succinic acid and isostearic acid. This natural emollient polymer is a natural vegetable alternative to animal derived lanolin oil, and provides good adhesion and gloss in lipsticks. It has a high molecular weight (3,700) and good viscosity. Zenolin® is an excellent wetting vehicle for both organic and inorganic pigments. When used in hair and skin applications, it adds luster and contributes to a smoother application. It is a superb natural glossing agent in color and hair applications and has also been found to boost SPF in sun and skin care formulations. Zenolin® is compatible with commonly used waxes and polar oils.

TYPICAL PROPERTIES

Appearance at 25 °C:

Clear to Slightly Hazy Viscous Amber Liquid

Viscosity (cPs): 4,000 to 10,000**Colour (Gardner):** 9 Max**Acid Value (ml KOH/g):** 32 Max**% Peroxide (mmol O₂/kg):** Less than 5**Refractive Index:** 1.47 to 1.49

GLOBAL DESIGNATIONS

Adopted INCI Name:

Castor Isostearate Succinate

CAS Reg. No.: 321573-76-6**EINECS:** Polymer Exempt**ECOCERT:** Certified**Canada (DSL):** Listed**China (IECSC):** Pending**Australia (AICS):** Pending**Korea (ECL):** Pending**Japan (ENCS):** Pending

STORAGE AND PACKAGING

Zenolin® has a normal shelf life of 36 months when stored in sealed unopened containers in a cool dry location at temperatures between 15°C and 25°C.

Zenolin® is available in 16 kg pails and 100 kg drums.

SOLUBILITY AND COMPATIBILITY

(Zenolin® @ 10% & Solvent @ 90%)

Solvent	50 °C	25 °C
Water	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Glycerin (96%)	<i>DISPERSIBLE</i>	<i>DISPERSIBLE</i>
Propylene Glycol	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Mineral Oil	<i>DISPERSIBLE</i>	<i>DISPERSIBLE</i>
Isopropyl myristate	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Cyclopentasiloxane	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Octyl dodecanol	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Dimethicone 100 cs	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Safflower Oil	<i>SOLUBLE</i>	<i>SOLUBLE</i>
Ethanol (95%)	<i>INSOLUBLE</i>	<i>INSOLUBLE</i>
Castor Oil	<i>COMPATIBLE</i>	<i>COMPATIBLE</i>
Carnauba/Beeswax	<i>COMPATIBLE</i>	<i>COMPATIBLE</i>
Octyl palmitate	<i>SOLUBLE</i>	<i>SOLUBLE</i>

APPLICATIONS

Colour Care:

Lipsticks, Gloss Sticks and Pots, Concealer Sticks, Pencils, Mascara, and Foundations.

Skin Care:

Make-up removers, Night creams, and Ointments.

Sun Care:

Sunscreen lotions, sticks and balms, Suntan oils, Gels and Lotions.

Hair Care:

Gloss, Hair sprays, and Conditioners.

Typical Use Levels: 0.25 to 10.00 %TDS Z44106 Rev.0
March 2013

Zenitech®, division of TC USA Inc.

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