



ZENICONE® IX

Zenicon® IX is a polymer with a molecular weight of 2,600 that is derived from of castor oil, and dimethicone copolyol. This versatile product is a water and alcohol soluble silicone polymer that is very substantive to hair and skin. Due in part to its high molecular weight. Zenicon® IX is non ionic and compatible with cationic and anionic surfactants systems, plus acts as a coupler and blends clear into formulations. It contributes to volumizing of hair in normal to oily shampoos. This unique compound has superb pigment wetting and dispersion properties, and may be used in "spray-on" sun and moisturizing applications.

TYPICAL PROPERTIES

| | |
|-------------------------------|--------------------|
| Appearance at 25 °C: | Pale Yellow Liquid |
| Colour (Gardner): | 3 Max |
| Acid Value (ml KOH/g): | 4 Max |
| Refractive Index: | 1.44 to 1.48 |

GLOBAL DESIGNATIONS

| | |
|---------------------------|---|
| Adopted INCI Name: | PEG-8 Dimethicone, PEG-8 Ricinoleate |
| CAS Reg. No.: | 68937-54-2, 9004-97-1 |
| EINECS: | Polymer Exempt |
| ECOCERT: | N/A |
| Canada (DSL): | Listed |
| China (IECSC): | Listed |
| Australia (AICS): | Listed |
| Korea (ECL): | Listed |
| Japan (ENCS): | Listed |

STORAGE AND PACKAGING

Zenicon® IX 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.

Zenicon® IX is available in 16 kg pails and 100 kg drums.

SOLUBILITY AND COMPATIBILITY (Zenicon® IX @ 10% & Solvent @ 90%)

| Solvent | 50 °C | 25 °C |
|---------------------|--------------------|------------------|
| Water | <i>SOLUBLE</i> | <i>SOLUBLE</i> |
| Glycerin (96%) | <i>DISPERSIBLE</i> | <i>INSOLUBLE</i> |
| Propylene Glycol | <i>SOLUBLE</i> | <i>SOLUBLE</i> |
| Mineral Oil | <i>INSOLUBLE</i> | <i>INSOLUBLE</i> |
| Isopropyl myristate | <i>INSOLUBLE</i> | <i>INSOLUBLE</i> |
| Cyclomethicone | <i>INSOLUBLE</i> | <i>INSOLUBLE</i> |
| Octyl palmitate | <i>INSOLUBLE</i> | <i>INSOLUBLE</i> |
| Safflower Oil | <i>INSOLUBLE</i> | <i>INSOLUBLE</i> |
| Ethanol (95%) | <i>SOLUBLE</i> | <i>SOLUBLE</i> |

APPLICATIONS

- Colour Care:**
Foundations.
- Skin Care:**
Liquid Soaps, Body Washes, Lotions, Creams, and Moisturizers.
- Sun Care:**
Sprayable Creams. Sunscreen lotions, and Balms
- Hair Care:**
Shampoos, Conditioners, Leave on, 2 in 1 shampoos, Clear Styling Gel and Sprays.
- Typical Use Levels:** 0.25 to 4.00 %

