



# Technical Data Sheet

## ZENOLIN

**Zenolin is a vegetable replacement for lanolin oil.** A natural polymer with **USP** quality castor oil of vegetable origin used in personal care applications. Its high viscosity and molecular weight (5700) contributes to improved adhesion and gloss. It will aid in producing strong stable sticks with a homogenous structure. It is an excellent wetting vehicle for organic and inorganic pigments. It may be used in skin and sun applications where superb barrier qualities are required. **It is 100% active! It has excellent barrier qualities.**

## CHEMICAL STRUCTURE:

A condensation polymer of:  
Castor oil,  
Succinic acid  
and Isostearic acid

## CHEMICAL AND PHYSICAL PROPERTIES

### APPEARANCE:

Clear to slightly hazy liquid – ZAM-18

### FOREIGN MATTER:

Free of – ZAM-29

### 7C@CF:

9 MAX ZAM 02

### ACID VALUE:

32 MAX ZAM 26

### J=G7CGHM

4,000-10,000 cps – ZAM-09

### 1 D9FCL=89:

<5mmol oxygen/kg – ZAM-131

### F9: F57HJ9=B89L:

1.47-1.49 – ZAM-63

## GLOBAL DESIGNATIONS

**INCI NAME:** Castor Isostearate Succinate

**CAS #:** 321573-76-6

**Canadian DSL** Listed

**EINECS:** Polymer exempted

**JAPAN:** Permitted

**Patented**

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## COMPATIBILITY AND SOLUBILITY

| SOLVENT 90%         | ZENOLIN 10% |             |
|---------------------|-------------|-------------|
|                     | 50°C        | Room Temp.  |
| Water               | insoluble   | insoluble   |
| Glycerine 96%       | dispersible | dispersible |
| Propylene glycol    | insoluble   | insoluble   |
| Mineral oil         | dispersible | dispersible |
| Isopropyl Palmitate | soluble     | soluble     |
| Cyclopentasiloxane  | insoluble   | insoluble   |
| Octyl Dodecanol     | soluble     | soluble     |
| Dimethicone 100cs   | insoluble   | insoluble   |
| Safflower oil       | soluble     | soluble     |
| Ethanol (95%)       | insoluble   | insoluble   |
| Castor Oil          | soluble     | soluble     |
| Carnauba, beeswax   | compatible  | compatible  |
| Octyl Palmitate     | soluble     | soluble     |

## PERSONAL CARE APPLICATIONS

**Color Care;** mascara, concealer sticks, eye liner pencils, gloss sticks, lipsticks, gloss pots

**Skin Care;** make up removers, moisturizers, balms, ointments.

**Sun Care;** sun tan oils and lotions

**Hair Care;** hair sprays, conditioners.

**Use Levels; 0.25-10.0%**

## PACKAGING

PAIL 16 kilos

DRUM 100 kilos

## SHELF LIFE

36 months in unopened containers.

**We do not test on animals!**

TOXICOLOGICAL DATA AVAILABLE  
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