



# Technical Data Sheet

## ZENESTER D

**ZENESTER D** is a high molecular weight (36000) polymeric silicone polyester. It is highly lubricious and provides excellent wet comb and conditioning as well as superb skin feel when delivered from aqueous systems. **ZENESTER D** is non-ionic and is compatible with cationic and anionic systems thereby providing the formulator with greater latitude. This product is water dispersible. **ZENESTER D** is patent pending

## CHEMICAL STRUCTURE

Zenester D is a polyester made by the reaction of dimer acid and PEG-8-dimethicone.

### **CHEMICAL AND PHYSICAL PROPERTIES**

|                        |        |        |
|------------------------|--------|--------|
| <b>APPEARANCE:</b>     |        |        |
| Clear liquid –         | ZAM-18 |        |
| <b>FOREIGN MATTER:</b> |        |        |
| Absence –              | ZAM-29 |        |
| <b>MELTING POINT:</b>  |        |        |
| Liquid @ Ambient       | ZAM-59 |        |
| <b>ODOR:</b>           |        |        |
| Typical –              | ZAM 16 |        |
| <b>COLOR:</b>          |        |        |
| 6 Max                  | ZAM 02 |        |
| <b>ACID VALUE:</b>     |        |        |
| MAX –                  | 32.0   | ZAM 26 |

### **COMPATIBILITY AND SOLUBILITY**

| SOLVENT 90%         | ZENESTER D 10% |             |
|---------------------|----------------|-------------|
|                     | 50°C           | Room Temp   |
| Water               | dispersible    | dispersible |
| DC 200              | insoluble      | insoluble   |
| Glycerine 96%       | insoluble      | insoluble   |
| Eutanol G           | soluble        | soluble     |
| Propylene glycol    | dispersible    | dispersible |
| Mineral oil         | insoluble      | insoluble   |
| Isopropyl Myristate | insoluble      | insoluble   |
| DC 345              | insoluble      | insoluble   |
| Octyl Palmitate     | insoluble      | insoluble   |
| Safflower Oil       | dispersible    | dispersible |
| Ethanol 95%         | soluble        | soluble     |
| Castor Oil          | soluble        | soluble     |

### GLOBAL DESIGNATIONS

**INCI NAME:** PEG-8 Dimethicone/Dimer Dilinoleic Acid Copolymer  
**EINECS:** Polymer Exempted  
**CAS #** -841251-40-9

**Japan:** Permitted

**Patent Pending**

### **PERSONAL CARE**

#### APPLICATIONS

**HAIR CARE:** Conditioners, Leave on, Shampoos, Clear Styling gels, Sprays.

**SKIN CARE:** Liquid soaps, Body washes, Lotions, creams, moisturizers

**SUN CARE:** Sprayable creams and lotion sunscreens. Balms.

**USE LEVELS:** 0.25%-5%

### PACKAGING

Pail 16 kilos  
Drum 100 kilos

### SHELF LIFE

36 months in unopened containers

Toxicological data pending  
**We do not test on animals!**  
070706

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