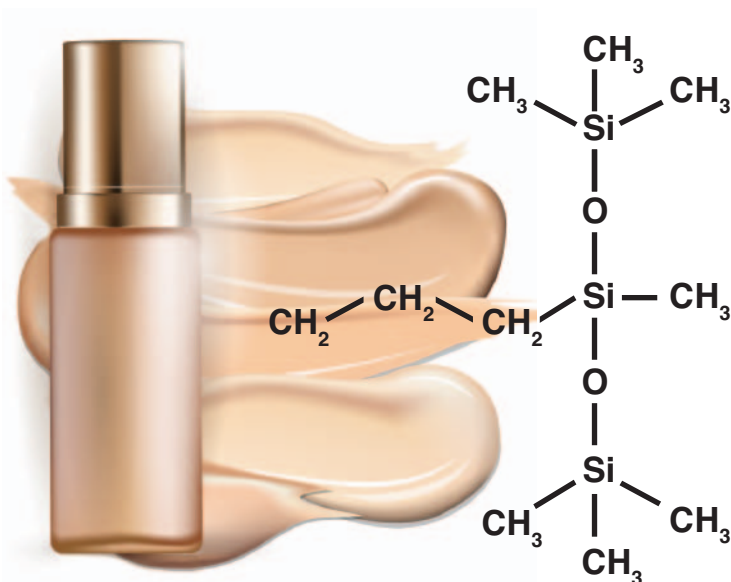




**SiBrid® TM-031** is a personal care silicone vehicle with solubility and volatility characteristics similar to cyclopentasiloxane (D<sub>5</sub>). These properties allow formulators to achieve performance needed while addressing regulatory concerns.

| Property              | TM-031    |
|-----------------------|-----------|
| Color                 | Colorless |
| Refractive Index      | 1.3989    |
| Organic Compatability | Yes       |
| Viscosity (cSt)       | 1-2       |
| Flash Point °C        | 54        |
| Boiling Point °C      | 197       |

### SiBrid® TM-031 Applications

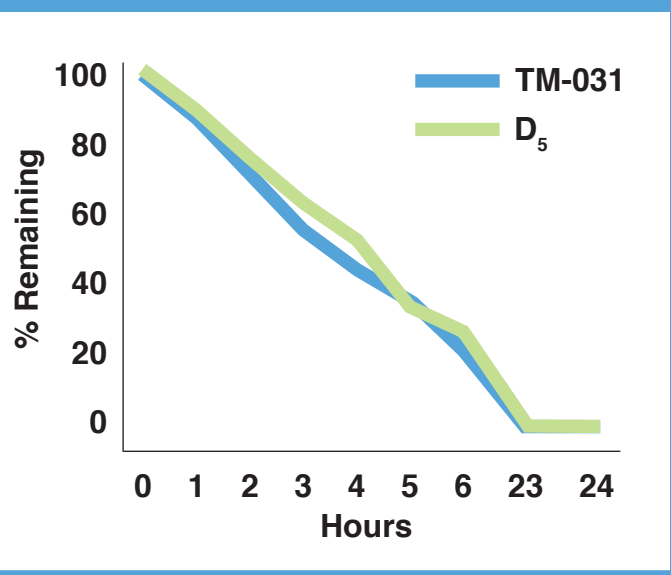
#### Alternative to D<sub>5</sub> in These Products:

- Tanning Oils
- Foundations
- Bath & Cleaning Products
- Solid Sticks
- Hair Care Products
- Creams and Lotions

### SiBrid® TM-031 Benefits

- Reduces Tack & Greasiness
- Improves Spreadability
- Cleansing Properties
- Light & Dry Skin Feel
- Soft & Silky After Feel

### Volatility of TM-031 vs. D<sub>5</sub> @ 25°C



## Solubility of SiBrid® TM-031 vs. D<sub>5</sub> (1:1)

| Cosmetic Ingredient          | TM-031    | D <sub>5</sub> |
|------------------------------|-----------|----------------|
| Dimethicones                 | Soluble   | Soluble        |
| Diethicones                  | Soluble   | Soluble        |
| Ethyl Hexyl Palmitate        | Soluble   | Soluble        |
| Hydrogenated Polyisobutene   | Soluble   | Soluble        |
| Hydrocarbons                 | Soluble   | Soluble        |
| Octyl Methoxycinnamate       | Soluble   | Insoluble      |
| Jojoba oil                   | Soluble   | Soluble        |
| Shea butter                  | Soluble   | Soluble        |
| Castor Oil                   | Insoluble | Insoluble      |
| Caprylyl/Capric Triglyceride | Soluble   | Soluble        |
| Isododecane                  | Soluble   | Soluble        |
| Ethanol                      | Soluble   | Soluble        |



**Makeup Remover with SiBrid® TM-031** Use TM-031 as a makeup solvent to clean up mascara, eyeliner, and other long-wearing or waterproof eye and face makeup instantly.

| Ingredient            | INCI Name                                              | Supplier            | %            |
|-----------------------|--------------------------------------------------------|---------------------|--------------|
| <b>Phase A</b>        |                                                        |                     |              |
| DI Water              | Water (Aqua)                                           |                     | QS           |
| Butylene Glycol       | Butylene Glycol                                        |                     | 5.00         |
| Preservative          |                                                        |                     | QS           |
| Purslane Extract      | Aqua/Butylene Glycol/<br>Portulaca Oleracea L. Extract | SK Bioland          | 0.50         |
| Blue 1                | FD&C Blue No. 1                                        |                     |              |
| <b>Phase B</b>        |                                                        |                     |              |
| <b>SiBrid® TM-031</b> | <b>Propyl Trisiloxane</b>                              | <b>Gelest</b>       | <b>40.00</b> |
| Sparkling Rose        | Fragrance (Parfum)                                     | Premier Specialties | QS           |