ABOUT ELKAY CHEMICALS

For 26 years, Elkay Chemicals Pvt. Ltd. has been manufacturing world class silicone based products. Elkay Chemicals is an economical, technology driven manufacturer.

ISO 9001-2008 (ICS) certified
REACH registered
State approved FDA facility

ELKAY has exported to 27 countries for over 18 years

The ELKAY Chemicals Advantage
- Long-standing relationships
- Flexible multi-purpose manufacturing facility
- Co-develop products with customers
- Confidentiality on sensitive projects
- Low cost, high quality products
- Excellent R&D facility and application lab
INDUSTRY SEGMENTS SERVED

- De-foaming
- Textile Finishing
- Agriculture

- Construction
- Rubber & Tire
- Pharmaceuticals

- Petrochemicals
- Personal Care
- Surface Treatment
**PRODUCT RANGE**

### Product Segments

#### Agriculture
- Adjuvants
- Defoamers
- AG 100/102/Platinum/105
- AF 630/630ABM/25AS/675

#### Pharmaceutical
- USP/IP/BP Fluids
- USP/IP/BP Emulsions
- Dimethicone, Simethicone
- Simethicone 30%

#### Personal Care
- Fluids/Surfactants
- Emulsions
- Sil100D/145/1451/1453/7300
- EM60/EMR4222/Simethicone 30%

#### Petrochemicals
- Fluids
- Defoamers
- Sil T 60K/100K/7030/7318
- AF 514/520/630/25AS
PRODUCT RANGE

Product Segments

Rubber & Tire
- Fluids
- Emulsions
- Sil T(10-1000K)

Construction
- Fluids
- Formulations
- RX22/RX33/Aquaseal41
- EM Series
- EM290/Seal100/AF-SP/EMR1400C

Textiles
- Fluids
- Emulsions
- ASF/ASF-R/HS Series
- EMR/Primasoft/SOF Series

Others
- Lubricants
- Surface Treatments
- SilT(350/1000) [General Purpose]
- Leather/Printing/Anti-stain/Dispersing
- Custom Fluids
- Phenylated Fluids
**ELKAY SOFT FEEL PRODUCTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Viscosity 25 C (cps)</th>
<th>Diluent</th>
<th>Feel</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>LK1451</td>
<td>~5000</td>
<td>D5</td>
<td>Soft, smooth, non greasy feel</td>
<td>~1.398</td>
</tr>
<tr>
<td>LK1453</td>
<td>~5000</td>
<td>Dimethicone</td>
<td>Soft, smooth, non greasy feel</td>
<td>~1.400</td>
</tr>
</tbody>
</table>

**Silicone soft feel blends:**
- Dimethiconol in cyclosiloxanes/Dimethicone
- Excellent carrier fluids used at 1-10% of the final formulation
- Non-greasy feel
- Reduced split ends in hair
- Forms breathable film on surface
- For leave on hair and skin care products
- Compatible with most formulations, mineral oils and emulsify-able

**Skincare testing shows**
- Increased skin gloss, softness, slipperiness and smoothness
- Easier spreadability of the skin care formulation

*Clinically tested by ASTM Sensory Guidelines*
<table>
<thead>
<tr>
<th>Product</th>
<th>Viscosity 25 C (cps)</th>
<th>D4 content</th>
<th>Type</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>LK-EM60</td>
<td>NA</td>
<td>-</td>
<td>60% PDMS emulsion in water base</td>
<td>NA</td>
</tr>
<tr>
<td>LK-145</td>
<td>~1</td>
<td>&lt;4%</td>
<td>Soft-silky feel silicone base</td>
<td>~1.397</td>
</tr>
<tr>
<td>LK-Sil 100D</td>
<td>200,350,1000</td>
<td>&lt;0.3%</td>
<td>PDMS base for formulations, lubrication</td>
<td>~1.406</td>
</tr>
</tbody>
</table>

LK EM 60
- Milky white high solids PDMS emulsion
- Particle size can be adjusted on request
- Excellent lubrication
- Forms breathable film on surface

LK-145
- Cyclopentasiloxane (D5)
- Silky smooth feel
- Non-cooling, non-stinging effect on skin
- Compatible with most petroleum based fluids & PDMS
- High spreadability

LK-Sil 100D*
- Cosmetic grade silicone oil (PDMS)
- Excellent lubricant and carrier fluid
- Odourless, colourless and clear fluid
- Compatible with most petroleum based fluids

*COSMETIC GRADE EXCELLENT COMPATIBILITY

*Conforms to all specifications of Dimethicone IP/BP/USP

FORMULATION BASES
ELKAY DEFOAMING PRODUCTS

<table>
<thead>
<tr>
<th>Product</th>
<th>Certification</th>
<th>Activity</th>
<th>Type</th>
<th>Clear-spot time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simethicone</td>
<td>IP, USP</td>
<td>100%</td>
<td>Silica-PDMS de-foaming compound</td>
<td>6-15sec</td>
</tr>
<tr>
<td>Simethicone 30%</td>
<td>IP, USP</td>
<td>30%</td>
<td>Silica-PDMS de-foaming emulsion</td>
<td>6-15sec</td>
</tr>
</tbody>
</table>

Silicone de-foaming solutions:

- Silica-PDMS combination
- Very low dosage required, 5 to 100ppm depending on application
- Quick foam knock-down and prevents foam regeneration
- Useful in formulations
- Compatible with most formulations

LOW DOSAGE
EXCELLENT ANTI-FOAM
OTHER APPLICATIONS

**LK-7300**  SOFT FEEL FOAMING AGENT
- Silicone-polyether surfactant which leaves a soft feel (PEG-12 Dimethicone)
- Excellent foam generation, plasticizing agent and humectant
- Low concentrations required to generate a stable foam
- Water and alcohol compatible
- Useful in shaving creams, hair care and skin care products

**LK-SILT 50M**  SMOOTH FEEL WATER RESISTANCE
- Silicone Resin in low viscosity PDMS fluid
- Dries clear for excellent foundations
- Excellent hydrophobic finish for cosmetics

**LK-EMR 4222**  SOFT SHINY HAIR FINISH
- Amodimethicone macro-emulsion in cationic surfactant
- Durable shiny finish without leaving buildup
- Useful in regular wash off conditioners to give soft feel
THE ELKAY ADVANTAGE

- In addition, we produce 8 additional custom made products tailored for our customers
- We can work with your technical teams to deliver your perfect solution
- FDA plant capacity of 400MTA for Simethicone and Simethicone Emulsion with an expansion currently underway
- Our customers include:
  - Sun Pharma
  - Piramal Healthcare
  - HLL
  - Wallace Pharmaceuticals
  - Indoco Remedies
  - Mankind Pharma
  - Cipla
  - Cupid

We also distribute our personal care products to South East Asia and North America