



## Product Information

**SIGMACOTE®**  
**Stock No. SL-2**

### DESCRIPTION:

SIGMACOTE® is a clear, colorless solution of a chlorinated organopolysiloxane in heptane.

### APPLICATION:

SIGMACOTE® reacts with surface silanol groups on glass to produce a neutral, hydrophobic, microscopically thin film. The film repels water, retards the clotting of blood or plasma and prevents adsorption of many basic proteins.

PRECAUTIONS: SIGMACOTE® is for laboratory use only. Not for drug, household or other uses. **FLAMMABLE. CAUSES BURNS.** Harmful if swallowed, inhaled or absorbed through skin. Reacts readily with water. Keep away from sources of ignition. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe vapor. Please refer to the Material Safety Data Sheet for updates regarding safe handling.

### STORAGE / STABILITY AS SUPPLIED:

Store SIGMACOTE® at 2-8°C. The active chlorinated organopolysiloxane component in this solution is sensitive to moisture and alcohols. It will react with water and alcohols to form HCl. Do not reuse the solution if it turns cloudy or if water fails to bead on a dry glass surface that has been treated with the solution.

### DIRECTIONS FOR USE:

1. The glass surface to be siliconized must be **clean** and **dry**.
2. Cover or immerse the glass surface in SIGMACOTE® (undiluted). The reaction is almost instantaneous. Excess solution can be removed for reuse.
3. Allow the treated glass surface to air dry in a hood. No heating is required.
4. Rinse the siliconized articles with water to remove the HCl by-products before use.

**SIGMACOTE<sup>II</sup>**  
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**NOTES:**

1. After the heptane has evaporated, the siliconized articles can be oven dried at 100°C for 30 minutes. This will produce a slightly more durable coating.
2. The siliconized coating can be removed by an overnight treatment with 10-20% (w/v) aqueous or alcoholic potassium hydroxide or sodium hydroxide solutions. Removal of the silicon coating can be monitored at various time intervals by rinsing the glass item and observing the "beading" or "sheeting" of water. It may also be possible to remove the coating by physical abrasion, i.e., scrubbing or vigorously brushing the glass surface. Autoclaving will not destroy the coating.
3. Sigma makes no claims regarding the effectiveness of SIGMACOTE® on plastic surfaces. Also some types of plastics may not be compatible with the heptane in this product.

**Sigma warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.**