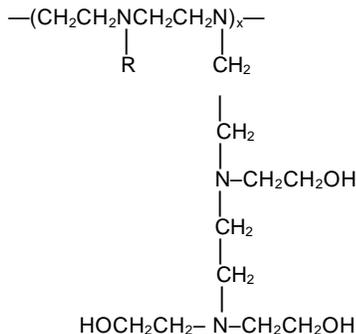

Technical Data Sheet

Lupasol[®] SC-61B

Ethoxylated Polyethylenimine

March 2018

Lupasol[®] SC-61B is a hydroxyethylated, (ethoxylated) water soluble polyethylenimine formed by reaction of a relatively high molecular weight polyethylenimine with ethylene oxide. In Lupasol[®] SC-61B, approximately eighty percent of the available amine hydrogens of the base polymer have been converted to hydroxyethyl groups. The following structure is representative of Lupasol[®] SC-61B, although it should not be considered as the only repeating unit of the product.



R=H or continuation of polymer chain

Lupasol SC-61B may be considered to be a giant alkanolamine having a high molecular weight, strong cationic properties and low volatility.

Shelf Life

About 1 year in sealed containers. Freezing can occur at temperatures below 0°C, but it is fit for use after thawing and stirring.

Please refer to the Material Safety Data Sheet (MSDS) for this product for instructions on safe and proper handling and disposal.



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Applications

The low toxicity of Lupasol SC-61B and its compatibility with a wide range of surfactant systems have led to its use in many cosmetic and personal care applications. The cationic substantiveness of Lupasol® SC-61B is of special interest where a medicament or other active ingredient of the formulation is more beneficially used by retaining the material on the skin or hair. Possible applications would include the use Lupasol® SC-61B as a cationic emulsifier, emulsion stabilizer and fixing agent for a variety of anionic and nonionic ingredients.

| Specifications | |
|------------------|---------------------|
| Viscosity @ 25°C | 2,500 cps max. |
| Solids content | 35 – 40% |
| Appearance | Free flowing liquid |

| Typical physical properties | |
|---------------------------------------|------------------------|
| Density | 1.08 g/cm ³ |
| Pour Point | 0 °C |
| pH | 12 |
| % Solids (Aqueous Solution) | 35 – 40% |
| Average Molecular Weight (Calculated) | 110,000 |
| Color, APHA | 200 max. |



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