

# PRODUCT DATA

## Everguard™ PL

Dec. 2018

**Trade Name:** Everguard™ PL  
**INCI Name:** Polyepsilon-lysine (Poly-ε-Lysine)  
**CAS No. :** 28211-04-3

### Typical Properties:

Items	Specification
Appearance (25°C)	White to pale yellow powder
Content (%)	94 Min.
pH (1% Soln., 25°C)	4.0-7.0
Loss on drying (105°C, 2h)	6.0 Max.

**EverGuard™ PL**, polyepsilon-lysine, is a natural polyamino acid polymerized by 25 to 40 L-lysine. It's also known as "nutritional biological preservatives" because it biodegrades into essential amino acid L-lysine in the human body.

### Features:

- Good water-solubility, easy to use;
- Broad-spectrum antimicrobial activity;
- Good thermal stability and antibacterial activities are kept when warmed at 80°C for 60 minutes and 120°C for 20-minutes;
- Wide pH application range;

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**Applications:** Widely used in personal care and personal cleansing products, such as lotions, masks, sprays, moisturizers, essences, gels, sunscreen lotions, liquid foundations, sunblock lotions, milk cleansers, shampoos, hair conditioners, etc.

**Formulation suggestions:** Directly dissolved it in water or aqueous phase then add into the system later; can be mixed with other preservatives to enhance the preservative effect.

**Recommended use level:** 0.01-0.5%

**Storage:** Store in a cool, dry, dark place with container sealed.

**Re-test date:** 24 months from date of manufacture.