



## BELGUARD PE PB

(BLEND OF PHENOXYETHANOL AND METHYL PARABEN, ETHYL PARABEN, PROPYL PARABEN, BUTYL PARABEN)

### Product Description:

**BELGUARD PE PB** is a combination of Phenoxyethanol and Methyl Paraben, Ethyl Paraben, Propyl Paraben, Butyl Paraben. This synergistic combination is equally effective against bacteria, yeasts & mould fungi. This is one of the most widely used preservative blend that has proven over many years of consumers use to be safe & effective in personal care products.

### Salient features of BELGUARD PE PB:

1. It is a very popular liquid cosmetic preservative system which can be used in leave-on & rinse-off products.
2. BELGUARD PE PB is a preservative that offers a broad balanced spectrum which effects on bacteria, yeast and mould fungi.
3. The product is a clear colourless liquid with characteristic odour, that can be added to most personal care products.
4. Not sensitive to pH and effective in wide pH range 3 - 8.
5. Good head space protection.
6. Fully effective in anionic, cationic & non-ionic systems.
7. The recommended concentration for various formulations range from 0.5 - 1.0%.

### Composition:

INCI Name	EINECS Name	CAS No.	EC No.
Phenoxyethanol	2-Phenoxyethanol	122-99-6	204-589-7
Methyl Paraben	Methyl 4 - Hydroxybenzoate	99-76-3	202-785-7
Ethyl Paraben	Ethyl 4 - Hydroxybenzoate	120-47-8	204-399-4
Propyl Paraben	Propyl 4 - Hydroxybenzoate	94-13-3	202-307-7
Butyl Paraben	Butyl 4 - Hydroxybenzoate	94-26-8	202-318-7

#### EU INCI declaration

Phenoxyethanol  
Methyl Paraben  
Ethyl Paraben  
Propyl Paraben  
Butyl Paraben

#### US INCI declaration

Phenoxyethanol  
Methyl Paraben  
Ethyl Paraben  
Propyl Paraben  
Butyl Paraben

## **BELCHEM INDUSTRIES (INDIA) PVT. LTD.**

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### Recommended Dosage:

Product forms	Recommended concentration in %
Emulsions	0.5 - 1.0
Solutions	0.5 - 1.0
Wet wipes	0.5 - 1.0

### General Remarks:

- BELGUARD PE PB is a clear colourless liquid and well tolerated at temperature upto 80°C. It is stable and active in the pH range 3 - 8. No further anti-microbial compounds required for the product preservation.
- Addition of BELGUARD PE PB at high pH values should be avoided.

### Technical Data:

<i>Description</i>	<i>Parameter</i>
Appearance	Clear colourless liquid
Odour	Mild Characteristic
Density (at 20 <sup>0</sup> )	Approx. 1.13 g/ml
Refractive Index (20 <sup>0</sup> C)	1.537 - 1.545
Acidity	< 0.25 ml of 0.1M NaOH

### Regulatory Status & Use Concentrations:

Application	EU & ASEAN Cosmetic Directive	Cosmetic Ingredient Review (USA)	Japan (Standard for cosmetics)
Leave on	Max. 1.39%	Max. 1.39%	Max. 1.38%
Rinse off	Max. 1.39%	Max. 1.39%	Max. 1.38%

### Storage:

Store in the original container at room temperature. Keep away from light and heat.

### Shelf life:

1.5 years (18 months) from the date of manufacturing in its original packed condition.

### Package size:

250 kg HDPE Drum, 35 kg Carboy.

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