



JEECIDE® CAP-4

Globally Compliant Broad Spectrum Preservative

Introduction

Jeecide® CAP-4 is a synergistic preservative blend comprised of Phenoxyethanol and Caprylyl Glycol. It is an easy-to-use clear liquid preservative that is paraben-free and formaldehyde-free. With broad spectrum capabilities, **Jeecide® CAP-4** is effective against bacteria, yeast, and mold. **Jeecide® CAP-4** is compatible with anionic, cationic, and non-ionic surfactants and emulsifiers and has a stable pH range of 3 — 10. It is toxicologically safe for use.

Jeecide® CAP-4 is equally suitable for use in both rinse-off and leave-on products. It is effective in difficult to preserve water/silicone emulsions. It is effective in difficult to preserve Water/Silicone emulsions. It is also approved for use in the United States, Japan, and Europe.



KEY BENEFITS:

- Broad spectrum
- Paraben and formaldehyde donor-free
- Widely approved
- Easy-to-use liquid
- Compatible with non-ionics, cationics, and anionics
- Non-toxic



PRODUCT APPLICATIONS:

- Skin creams and lotions
- Liquid foundations
- Color cosmetics
- Hair care products
- Sun care products



FORMULATING GUIDELINES:

The recommended use level is 0.5 — 1.5% for complete microbial protection.

Please note that it is important that every formulation be challenge-tested to determine the correct level of **Jeecide® CAP-4** to ensure proper preservation.

Typical Properties	
INCI Name	Phenoxyethanol (and) Caprylyl Glycol
Appearance @ 25°C	Clear liquid
Odor	Characteristic
Specific Gravity	1.0126 – 1.0217
% Water (KF)	1 Maximum
Preservative Compositional Breakdown	Phenoxyethanol: 53%
Recommended Use Level	0.5 - 1.5%

Solubility Data	
Ingredient	Compatibility
Mineral Oil	Dispersible
Apricot Kernel Oil	Soluble
Jojoba Oil	Soluble
Cyclomethicone	Insoluble
PEG-8	Soluble
Dimethicone 200/100 cst.	Dispersible
Phenyltrimethicone	Dispersible
Glycerin	Soluble
Water	Insoluble
Propylene Glycol	Soluble
Ethanol 190 Proof	Soluble
Isododecane	Soluble
C12-15 Alkyl Benzoate	Soluble
Butylene Glycol	Soluble
Polysorbate-20	Soluble
Polysorbate-80	Soluble
PEG-40 Hydrogenated Castor Oil	Soluble

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