



JEECIDE[®] CAP-1

Globally Compliant Broad Spectrum Preservative

Introduction

Jeecide[®] CAP-1 is a synergistic preservative blend comprised of Caprylyl Glycol, Phenoxyethanol, Hexylene Glycol, and Iodopropynyl Butylcarbamate. It is an easy-to-use clear liquid preservative that is paraben-free and formaldehyde-free. With broad spectrum capabilities, **Jeecide[®] CAP-1** is effective against bacteria, yeast, and mold. **Jeecide[®] CAP-1** 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-1 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 also approved for use in the United States, but is restricted in 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-1** to ensure proper preservation.

Typical Properties	
INCI Name	Caprylyl Glycol (and) Phenoxyethanol (and) Hexylene Glycol (and) Iodopropynyl Butylcarbamate
Appearance @ 25°C	Clear liquid
Odor	Slight, characteristic
Specific Gravity	0.967 - 1.016
% Water (KF)	1 Maximum
Preservative Compositional Breakdown	Phenoxyethanol: 32 - 38%
	IPBC: 1.5 - 3.5%
Recommended Use Level	0.5 - 1.5%

Solubility Data	
Ingredient	Compatibility
Mineral Oil	Dispersible
Cyclomethicone	Insoluble
Dimethicone 200/100 cst.	Dispersible
Caprylic/Capric Triglycerides	Soluble
Water	Dispersible
Propylene Glycol	Soluble
Ethanol 190 Proof	Soluble
Isododecane	Soluble
C12-15 Alkyl Benzoate	Soluble
Isopropyl Myristate	Soluble
Butylene Glycol	Soluble
Phenyltrimethicone	Soluble

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