

PRESERVATIVE SYSTEMS

Protacides™ Preservatives

PRODUCT NAME	INCI NAME	NOTES
PROTACIDE PSP BLEND	PHENOXYETHANOL AND POTASSIUM SORBATE AND SODIUM BENZOATE	Protacide PSP Blend combines the antibacterial activity of Phenoxyethanol with the antibacterial/antifungal activity of Sodium benzoate and the antifungal activity of Potassium sorbate. This combination is highly effective against Gram-negative bacteria, Gram-positive bacteria, yeasts and molds.
METHYL PARABEN NF	METHYLPARABEN	Effective against mold and yeast. Colorless, non-toxic, stable and effective at low concentrations. Less effective with non-ionic and cationic surfactants. Typical use level 0.1 - 0.8%. EU: Approved level 0.4% for one paraben 0.8% for blend. Japan: Approved level 1% total paraben.
PROPYL PARABEN NF	PROPYLPARABEN	
BUTYL PARABEN NF	BUTYLPARABEN	
ETHYL PARABEN NF	ETHYLPARABEN	
POTASSIUM SORBATE	POTASSIUM SORBATE	Effective primarily against yeast and molds. Effective only in acidic conditions (pH 6.5 MAX) Non-toxic. Typical use level 0.05 - 0.8%. EU: Approved level 0.8% MAX. Japan: Approved level 0.5% MAX.
PROTACIDE DDMH	DMDM HYDANTOIN	Broad spectrum anti-microbial most effective against bacteria. Sold as a 55% solution in water. Typical use level 0.15 - 0.6%. EU: Approved level 0.6% MAX Japan: Approved level 0.3% MAX (rinse-off products only).
PROTACHEM NA2-P	DISODIUM EDTA	Chelating agent used to enhance anti-microbial activity. Typical use level 0.1 - 0.3%.
PROTACHEM NA2-S	DISODIUM EDTA	Chelating agent used to enhance anti-microbial activity. Typical use level 0.1 - 0.3%.
PROTACIDE NA3 EDTA	TRISODIUM EDTA	Chelating agent used to enhance anti-microbial activity. Typical use level 0.1 - 0.3%.
PROTACIDE PE	PHENOXYETHANOL	Most active against bacteria, some activity against yeast and mold. Good solvent for parabens. Characteristic rose odor. Typical use level 0.25 - 1.0%. EU: Approved level 1% MAX. Japan: Approved level 1% MAX.
PROTACIDE U-13	IMIDAZOLIDINYL UREA	Broad spectrum antibacterial. Usually used in combination with parabens to provide broad spectrum protection. EU: Approved level 0.6% MAX. Japan: Approved level 0.3% MAX in rinse-off products.
SORBIC ACID	SORBIC ACID	Very active against mold, fair for yeasts. Not effective for bacteria. Effective only in acidic conditions. Typical use level 0.05 - 0.6%. EU: Approved level 0.6% MAX. Japan: Approved level 0.5% MAX.
TRICLOSAN	TRICLOSAN	Antibacterial commonly used in deodorants, soaps and hand/body washes. Typical use level 0.1 - 1.0%.



SAFE

EFFECTIVE

PROVEN

ECONOMICAL

PARABENS