

# TECHNICAL DATA SHEET

# NOVAGUARD 702

NOVAGUARD 702 is a complete preservative system and is paraben free and formaldehyde free. It is effective against both Gram-positive and Gram-negative bacteria, mould, and yeast.

<b>Brand Name:</b>	NOVAGUARD 702
<b>INCI Name:</b>	Phenoxyethanol Benzoic acid Dehydroacetic acid
<b>CAS Number:</b>	122-99-6, 65-85-0, 520-45-6
<b>Appearance:</b>	Clear Colourless to light yellow liquid
<b>Density:</b>	1.120 (Approx)
<b>Flash Point:</b>	>100°C Method: ISO 2719
<b>Solubility:</b>	Slightly soluble in water
<b>EC Number:</b>	204-589-7, 200-618-2, N.A.
<b>pH range:</b>	3-4 @ 20 g/l
<b>Retest Period:</b>	2 year

NOVAGUARD 702 is a mild globally-approved preservative consisting of a liquid blend of phenoxyethanol, benzoic acid, and dehydroacetic acid.

Benzoic acid is a simple aromatic carboxylic acid widely distributed in nature in the free state or in the form of salts. Appreciable amounts are found in gum benzoin, in cranberries, and other like berries. The free acid is found in prunes, ripe cloves and oil of anise seeds. In addition to being used for cosmetic preservation, it is also used as a preservative in foods, for pharmaceutical and medicinal uses and as an ingredient in antiseptic ointments for treatment of fungal infections of the skin.

Dehydroacetic acid is a cyclic ketone acid which has antifungal and some antibacterial properties.

Due to the presence of these organic acids in the system, NOVAGUARD 702 offers broad spectrum protection against bacteria, yeast, and mould and is most effective in applications such as creams and lotions where the pH is not above 6.0.

#### Application:

NOVAGUARD 702 is recommended for use in multiple personal care products including shower gels, shampoos, body washes, creams, lotions, and wet wipes. Not suitable for anhydrous products, may not be suitable for products that include cationic polymers or quaternary compounds, high concentrations of non-ionics are also to be avoided. Customers are advised to evaluate NOVAGUARD 702 in their formulations, ideally over a range of concentrations, using antimicrobial efficacy tests to determine the minimum effective concentration to protect

#### Storage and Handling:

Avoid formation of aerosols. Use solvent-resistant equipment. Use only in well-ventilated areas. Keep away from sources of ignition. Take precautionary measures against static discharges. Keep only in original container. Provide solvent-resistant and impermeable floor. Do not store with combustible materials.

#### Packing:

25Kg Carboys

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing intellectual property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.