

Microsponge® 5647 Glycerin

Product Characteristics: Product is a mixture of 50% methacrylate copolymer and 50% glycerin. The methacrylate copolymer is a highly crosslinked, high molecular weight copolymer of ethylene glycol dimethacrylate and methyl methacrylate. Glycerin, also known as glycerol, is a clear colorless viscous liquid. The product is a free flowing white powder of spherical particles; it prolongs the humectant qualities of glycerin as well as improves skin feel of formulas with high glycerin content.

Microsponge® 5647 Glycerin can be easily formulated into an O/W system and after application on the skin, the glycerin is available to the skin. The product is not sensitive to shear and almost any type of cosmetic mixing equipment is acceptable.

Product Applications: Microsponge® 5647 Glycerin is well suited for Skin Care products including Cleansers, Hand and Body Moisturizers, Facial treatments, and Color Cosmetics such as Foundations and Lipsticks.

Chemical/Physical Data

Appearance: Free flowing white powder of discrete spherical particles

Flash point: Glycerin 320 degrees F / 160 degrees C

Water content: #5% (Karl Fischer)

Autoignition temperature: Glycerin 698 degrees F / 370 degrees C

Density, bulk (g/cc): 0.57

Monomer residue (extrapolated from polymer): =< 20 ppm

Shelf life: 18 months

Product is chemically synthesized and is not of biological origin (i.e., animal, vegetable, or microbial). No preservatives are used and although not routinely tested, no impurities such as heavy metals are anticipated to be present in significant quantities. The rate of biodegradation is unknown but may decompose by oxidation.

Storage and Handling: Product can be stored at ambient temperature and no specific precautions are necessary for handling. Glycerin is combustible, is incompatible with strong oxidizers, and mixtures with chlorine could be explosive. Keep product container closed in a dry area and away from heat and open flame. Refer to the product MSDS for additional information including emergency first aid measures.