Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

Product Name: Emulgent Blend® SAT

INCI Name: Sodium Acrylate/ Sodium Acryloyldimethyl Taurate Copolymer, Isohexadecane, Polysorbate 80

CAS: 77019-71-7, 4390-04-9, 9005-65-6 S

Chemical Classification: Mixture

Functional Category: Emulsifier, viscosity modifier, emulsion stabilizer, pearlescent agent: a substance for giving a shiny or pearly effect, opacifier: a substance for achieving opacity or clouding.

Description: Copolymer of sodium acrylate and sodium acryloyldimethyl taurate monomers. It is a neutralized polymer in inverse emulsion that forms hydro-swelling droplets (HSD) in water. Excellent thickener (rheological modifier). Forms gels over a wide range of pH values (pH 4-12). Thickening power: If used at a concentration of 1%, it achieves an emulsion viscosity of 20,000 mPa, and if used at a concentration of 4%, the emulsion viscosity ranges around 100,000 mPa. Emulsifies all types of fatty phases (up to 40%), including silicones and plant oils without the addition of conventional emulsifiers. Used in the production of cold emulsions. Sensory profile: provides a rich silky texture, quickly absorbed by the skin, and offers a light, non-sticky touch. Transparent, slightly viscous liquid. pH: 5-7 (2% aqueous gel).

Benefits:

• Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer is a versatile polymer used as a thickener, stabilizer, and emulsifier in cosmetic formulations. It helps create a smooth product texture, prevents separation of different components, and improves overall viscosity and stability of emulsions. Used in skincare products such as creams, lotions, and serums. Provides a pleasant texture and enhances the efficacy of the product by ensuring even distribution of active ingredients

• Isohexadecane is a hydrocarbon solvent and emollient. Improves the texture of cosmetic products. Particularly useful in skincare products as it provides a light, silky feel on the skin. Isohexadecane helps products spread evenly and smoothly and contributes to the water resistance of formulations

Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

• Polysorbate 80 is a surfactant and emulsifier that aids in blending oil and water in cosmetic formulations. Known for its ability to create stable emulsions, which is especially important in products like creams, lotions, and cleansers where oily and watery ingredients need to be combined. Helps dissolve essential oils and fragrances and ensures their even distribution in the product.

Usage: Three possible application options in emulsions: (1) add the polymer to the oily phase, (2) create a watery gel and then add the oily phase, (3) add the polymer during the emulsification phase. Good mixing with a hand mixer is necessary to achieve smooth consistency creams. Gel creams: 1-5%, and formulations over 3% achieve creams with optimal performance. It is recommended to use at least 12% oily phase.
For external use only.

Application: Used to produce gel creams, emulsion gels, cold emulsions, lotions, creams, skin-lightening/self-tanning products, sun protection products, baby care products, mascaras, bases...

Original raw materials obtained from: Sodium acrylate, sorbitol, vegetable oils, petroleum derivatives

Product manufacturing: The copolymer is obtained by polymerizing sodium acrylate and sodium acryloyldimethyl taurate monomers. Isohexadecane is produced through a multistep process of processing petroleum derivatives to form branched C16 hydrocarbons. Polysorbate 80 is obtained by esterification of sorbitol with fatty acids: stearic, lauric, oleic, and palmitic.

Animal Testing: The substance has not been tested on animals.

GMO: Not GMO

Vegan: Does not contain components of animal origin