



Sucragel AOF BIO TDS

PRODUCT OVERVIEW

Sucragel AOF BIO has been specifically blended to satisfy a growing trend for **organic**, safe and cold process oil thickeners within the Personal Care market. Creating gel-to-milk cleansers, scrub bases and bath oils has never been so easy. Sucragel is also a highly functional, mild and flexible emulsifier with moisturising properties to create many amazing textures. All this and 94% of organic ingredients.

PHYSICAL PROPERTIES

The following table indicates typical values and properties that are not intended to be used as specifications.

Aspect	Hazy liquid
Smell	Characteristic
Colour	Pale yellow
Specific Gravity (S.G) @ 20°C	1.1
pH @ 20°C	6.5
Viscosity in mPa.s @ 20°C	3500

BENEFITS

Sucragel AOF BIO is a self-emulsifying blend based on a sugar ester emulsifier and designed to ease the use of the D-phase emulsification technology. It is a preservative-free and cold process ingredient. It allows thickening of cosmetic vegetable oils. It also allows formulating O/W emulsions from milks to thick creams. The nature of its four components makes it mild and safe to skin and eyes while glycerine gives Sucragel AOF BIO moisturizing properties.

APPLICATIONS

Sucragel AOF BIO can be used in a wide variety of applications such as:

Bath oils

Cleansers

Make-up Removers

SPA products (masks, scrubs, massage)

Creams and Lotions

Lip Balms

Baby products

ALFA Chemicals Limited, Arc House, Terrace Road South, Binfield, Bracknell, Berkshire RG42 4PZ

TEL: 01344 861800 FAX: 01344 451400 EMAIL: sucragel@alfa-chemicals.co.uk WEB: www.alfa-chemicals.co.uk

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Continuation

USAGE GUIDELINES

Sucragel is a versatile and flexible ingredient that can be used from 1 to 99%. It has been developed for use at room temperature but can be used at elevated temperature if needed (up to 80°C).

Bath oils

Simply stir fragrance, essential oil and dye into the Sucragel. Up to 30% oil can be added to the Sucragel still keeping a relative low viscosity suitable for bath oil.

Oily Gels

The use level of Sucragel AOF BIO is from 15 to 70%. The more oil is added into the Sucragel the more viscous is the oily gel in the end. The use of glycerine/sorbitol will help to decrease the viscosity if needed. The oil phase must always be added into the Sucragel AOF BIO (mayonnaise like process). The reverse will not allow the oily gel structure to be formed. Both propeller mixer and homogeniser can be used. However due to the rapid increase of viscosity while adding the oil phase, a propeller mixer might be the best option. Transparency of these gels can be achieved balancing the refractive index of the water phase with the one of the oil phase.

Emulsions

The recommended use level is from 5 to 10% depending on the oil phase level being emulsified. Sucragel can be added either to the oil phase or to the water phase. A direct emulsification is recommended (add the oil phase into the water phase). An indirect emulsification is possible. However, a phase inversion will take place during the process.

Lip balms

The process itself is similar to the one used to create oily gels. The combination of Sucragel and sugar esters with longer fatty chains (sucrose palmitate, sucrose stearate) is recommended to achieve the balm texture. Butter, waxes and water-repellent ingredients can be added to the oil phase to give a better gloss and substantivity to the balm.

COMPATIBILITY

The products made with Sucragel AOF are sensitive to extreme pH values. It is recommended formulating between pH 4 and 8.

The oily gels can tolerate a reasonable amount of electrolytes (formulation of salt scrubs) although the emulsions are quite sensitive to electrolytes.

HANDLING AND STORAGE

Sucragel AOF BIO is supplied in 5kg and 25kg containers. The Sucragel AOF BIO is stable for at least 1 year when kept away from moisture in tightly closed containers and away from extreme temperatures.

See the Material Safety Data Sheet for Sucragel AOF BIO for further information on the proper handling and safety aspects of this product.

OTHER GRADES

Sucragel CF

Sucragel AOF

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