

Gracefruit Ltd  
146 Glasgow Road, Longcroft, Stirlingshire, FK4 1QL  
www.gracefruit.com  
VAT Number: 935 8115 14  
EORI Number: GB9358 1151 4000  
Company Number: SC374368



### **FACT SHEET** **SORBITOL**

**Description:** Sorbitol is a naturally derived thickener that provides viscosity and texture to applications. Consists of the alcohols D-glucitol & D-mannitol and is resistant to acids & alkalis. A white, crystalline powder with a slightly sweet odour. Soluble in water or alcohols.

**INCI Name:** Sorbitol

**Use:** 0.5% to 15%. Add to water phase.

**Properties:** A powerful humectant with excellent moisturising properties which helps to impart a smooth, soft, conditioned feeling to the skin and helps to retain the skin's moisture. It has excellent thickening effects providing viscosity & texture. It also stabilises gels and provides good clarity.

**Applications:** Body lotions & creams, shampoos & conditioners, make-up & sun care.

**Sample Recipe:** *Face Mask*

#### **Phase A**

Jobba Oil - 2%

Cetyl Alcohol - 2%

Cetearyl Alcohol - 3%

#### **Phase B**

Hot Distilled Water - 65.3%

Xanthan Gum - 0.5%

Sorbitol - 2%

#### **Phase C**

White Clay - 18%

#### **Phase D**

Silk Protein Liquid - 3%

Hydrolysed Oat Infusion - 3%

GFguard COS - 1%

Fragrance - 0.2%

#### **Method**

Put phase A into a heat-resistant glass jar and place it in a hot water bath (150°F/66°C) to melt the ingredients. Put phase B into a separate jar and stir with high speed to dissolve the gum, heat it to the same temperature. Add phase B to phase A and stir until it is a homogenous solution. Add phase C to phase A/B and stir. After temperature has dropped to 100°F/38°C add phase D and stir again.

This sample recipe is provided as a guide. Gracefruit Limited makes no guarantees with regard to the outcome or effectiveness of any of our formulations. Gracefruit Limited accepts no responsibility for the mishandling or misuse of any of our products. It is the customer's responsibility to test compatibility before proceeding with manufacture using our raw materials and/or packaging materials. Gracefruit Limited cannot be held liable for products made using our formulas, raw materials, or packaging materials.

