



Natural W/O emulsifier with cost reducing benefits



PRODUCT FEATURES

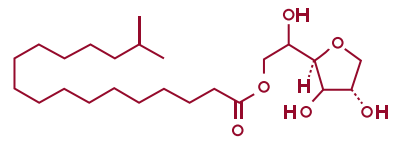
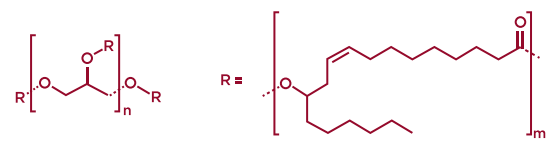
**100% NATURAL EMULSIFIER** - Jolee 7887 is derived from **100% natural raw materials**. It is a **palm free**, PEG-free and EO-free product. Furthermore Jolee 7887 is certified with an ECOCERT label.

**CHEMICAL STABILITY** - Jolee 7887 exhibits stability in a low emulsifier (1%) emulsion with caprylic/capric triglycerides and paraffin oils up to 18%. In high emulsifier (3,5%) emulsions stability is also reached with caprylic/capric triglycerides, sunflower oil and paraffin oils. In addition, a remarkable synergy and high viscosity is observed using sunflower oil which benefits green formulations. Even in emulsions with **internal (water) phases up to 82%**, Jolee 7887 still shows stability.

**UNIQUE SENSORIAL** - This PEG-free emulsifier is experienced as a good skin protector which provides long lasting moisturization. It improves spreading and the penetration of actives while adding a **glossy appearance** to the end formulation. It is a versatile emulsifier which can be used for face, body, baby and sun care.

**COLD PROCESS METHOD** - Due to its structure, Jolee 7887 is liquid at room temperature and thus a perfect match for **cold process methods**. Formulations with heat sensitive products may require a cold emulsion method. Jolee 7887 is therefore the **solution for challenging production processes**. Furthermore cold processing equals cost reduction by means of time, energy and amount of products.

Jolee 7887

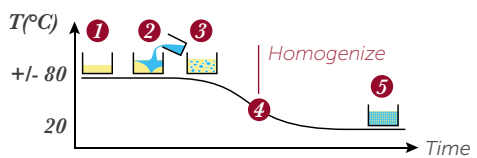


INCI Polyglyceryl-3 polyricinoleate (and) Sorbitan isostearate  
CAS 68936-89-0, 71902-01-7

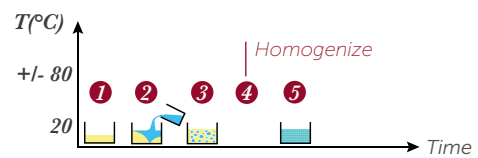
CHARACTERISTICS

Appearance	Viscous amber colored liquid
Kinematic viscosity 40°C	≥ 1150 mm <sup>2</sup> /s
Refractive index 65°C	1.4655 – 1.4665
Color Gardner	≤ 8
Acid value	≤ 3 mg KOH/g
Iodine value	50 - 70 g I <sub>2</sub> /100g

Hot Process



Cold Process





## FORMULATION EXAMPLE

### BABY CREAM WITH 20% ZnO - OL0214

PHASE	INGREDIENT	INCI	% W/W
A	Jolee 7887	<i>Polyglyceryl-3 polyricinoleate (and) Sorbitan isostearate</i>	4
	Radia 7207	<i>Propylene glycol dicaprylate /dicaprte</i>	2
	Jolee 7750	<i>Isoamyl laurate</i>	10
	Radia 7104	<i>Caprylic/capric triglyceride</i>	4
	Preservative		q.s.
B	Glycerine 4811	<i>Glycerin</i>	3
	Water	<i>Aqua</i>	55.5
	Mg.SO4.7H2O		0.5
C	ZnO	<i>Zinc oxide</i>	20



## MANUFACTURING PROCEDURE

**1** Mix the ingredients of phase A. - **2** Mix the ingredients of Phase B. - **3** Add phase B to phase A while stirring intensively with Turrax at 3400 rpm. - **4** Homogenize the mixture during 1 minute with Turrax at 5000 rpm. - **5** Add phase C gradually under stirring. - **6** Homogenize the mixture during 1 minute with Turrax at 5000 rpm.

### COMMENTS:

**Properties:** Viscosity - 36100 mPa.s (Spindle 5, 10 rpm, 1 min).

**Assessment:** Cold process method with good spreading properties and smooth after feel.

### POLYGLYCERYL-3 POLYRICINOLEATE & SORBITAN ISOSTEARATE

