

IMWITOR® 600

INCI: Polyglyceryl-3 Polyricinoleate

W/O emulsifier

Non ionic

PEG free





1. Description:

IMWITOR® 600 is an ester from polyglycerin and plant derived condensed castor oil fatty acids. IMWITOR® 600 is a yellow-brownish waterless oil. Its appearance and consistency is similar to honey (viscosity at 60° C: approx. 200 - 500 mPas). Its odor is light and typically oily; its taste is neutral.

2. Chemical and Physical Properties:

Tests	Value	Unit
Acid value	max. 6	mg KOH/g
Saponification value	175 – 190	mg KOH/g
lodine value	75 – 95	g I ₂ /100 g
Hydroxyl value	80 – 100	mg KOH/g

3. Application:

IMWITOR® 600 is soluble in acetone, n-hexane, fatty oils and polar oils like MIGLYOL® 812. It becomes turbid in white mineral oil and cold ethanol and is insoluble in water.

IMWTOR® 600 is a non-ionic, PEG-free W/O emulsifier, with an average molecular weight of > 3000 g/mol. IMWTOR® 600 is free from any stabilizers and antioxidants.

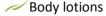
A cold and hot/cold emulsification is possible. In contrast to many other W/O emulsifiers IMWITOR® 600 allows low consistencies without stability problems.

Cosmetic Functions:

IMWITOR® 600 is suitable for all kinds of W/O emulsions, especially suitable for soft to low-viscosity W/O emulsions with non grease, pleasant skin feel.

IMWITOR® 600 gives cosmetic formulations a soft and pleasant skin feel.

Thus IMWITOR® 600 use is suggested for:



Sun protection products

Lip sticks

Baby care





4. Formulation Guide

	Nourishing Silky Lotion		442
Phase A			
	MIGLYOL® 818 ¹	Caprylic/Capric/Linoleic Triglyceride	3,00
	MIGLYOL® 829 ¹	Caprylic/Capric/Succinic Triglyceride	4,00
	MIGLYOL® 8810 ¹	Butylene Glycol Dicaprylate/Dicaprate	2,50
	Olive Oil	Olea Europaea	2,50
	MIGLYOL® 812 ¹	Caprylic/Capric Triglyceride	17,00
	IMWITOR® 600 ¹	Polyglyceryl-3 Polyricinoleate	3,00
	Span 80 V ²	Sorbitan Monooleate	1,00
	Bees Wax	Cera Alba	1,80
	Antioxidant		q.s.
Phase B			
	CremerGLYC ¹	Glycerine	2,00
	Magnesiumsulfat 7 H ₂ O	Magnesium Sulfate	1,20
	Preservatives		q.s.
	Demin. Aqua	Aqua	ad 100,00
Phase C			
	Fragrance	Fragrance	q.s.

Procedure:

- 1. Heat phase A and B separately at approx. 75°-80° C.
- 2. Add B to A with high speed stirring, homogenize and cool down to approx. 40°C while gently stirring Homogenize with lowest speed for a short time. Cool down to approx. 20°C while gently stirring.
- 3. Add phase C.

Supplier References:

¹Cremer Care

²Croda International





1	Night Cream with Shea Butter, hot/cold processing		437
Phase A			
r	MIGLYOL® 812 ¹	Caprylic/Capric Triglyceride	10,00
(Calendula Oil	Calendula Offizinalis Flower Oil	3,00
(CremerVERO Shea Butter ¹	Butyrospermum Parkii Butter	5,00
I	IMWITOR® 600 ¹	Polyglyceryl-3 Polyricinoleate	4,00
9	SOFTISAN® 649 ¹	Bis-Diglyceryl Polyacyladipate-2	3,00
F	Paracera M ²	Microcrystalline Wax	2,00
	Merkur Vaseline 771 ³	Petrolatum	6,00
Phase B			
(CremerGLYC ¹	Glycerine	3,00
ſ	Magnesiumsulfat 7 H₂O	Magnesium Sulfate	0,70
F	Preservatives		q.s.
	Demin. Aqua	Aqua	ad 100,00
Phase C			
7	Tocopherol	Tocopherol	0,50
F	Fragrance	Fragrance	q.s.

Procedure*:

- 1. Heat A to approx. 75-80°C and B to approx. 35-40°C.
- 2. Add B to A with homogenization (highest speed) for 1 Min. 30 s.
- 3. Homogenize at lowest speed for 1 Min. 30 s. and add C.

Supplier References:

¹Cremer Care



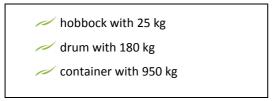
^{*}Lab scale 300g with IKA UT 25 and dispersing element S 25 N -18G

² Paramelt

³ Sasol Wax GmbH







Store below 25°C

Protect from light and moisture

Shelf life 3 years

March 2013

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