




IMWITOR® 600

INCI: Polyglyceryl-3 Polyricinoleate

-  W/O emulsifier
-  Non ionic
-  PEG free

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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
Iodine 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.

IMWITOR® 600 is a non-ionic, PEG-free W/O emulsifier, with an average molecular weight of > 3000 g/mol. IMWITOR® 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:

-  Body lotions
-  Sun protection products
-  Lip sticks
-  Baby care

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4. Formulation Guide

Nourishing Silky Lotion			442
Phase A			
MIGLYOL® 818¹	Caprylic/Capric/Linoleic Triglyceride		3,00
MIGLYOL® 829¹	Caprylic/Capric/Succinic Triglyceride		4,00
MIGLYOL® 8810¹	Butylene Glycol Dicaprylate/Dicaprate		2,50
Olive Oil	Olea Europaea		2,50
MIGLYOL® 812¹	Caprylic/Capric Triglyceride		17,00
IMWITOR® 600¹	Polyglyceryl-3 Polyricinoleate		3,00
Span 80 V ²	Sorbitan Monooleate		1,00
Bees Wax	Cera Alba		1,80
Antioxidant			q.s.
Phase B			
CremerGLYC¹	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

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Night Cream with Shea Butter, hot/cold processing			437
Phase A			
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
IMWITOR® 600 ¹	Polyglyceryl-3 Polyricinoleate		4,00
SOFTISAN® 649 ¹	Bis-Diglyceryl Polyacyladipate-2		3,00
Paracera M ²	Microcrystalline Wax		2,00
Merkur Vaseline 771 ³	Petrolatum		6,00
Phase B			
CremerGLYC ¹	Glycerine		3,00
Magnesiumsulfat 7 H ₂ O	Magnesium Sulfate		0,70
Preservatives			q.s.
Demin. Aqua	Aqua		ad 100,00
Phase C			
Tocopherol	Tocopherol		0,50
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.

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

Supplier References:




¹Cremer Care




²Paramelt

³Sasol Wax GmbH

IMWITOR® 600

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-  hobbock with 25 kg
-  drum with 180 kg
-  container with 950 kg

-  Store below 25°C
-  Protect from light and moisture
-  Shelf life 3 years

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