

Description

- stabilization of oil-in-water emulsions
- biodegradable
- good tolerated by skin and mucous membranes
- ability to solubilize essential oils, fragrances and other oil substances

Application

- shampoos
- baby bath gels
- gentle baby shampoos
- · liquid soap
- haircare
- shaving foams
- · shower gels

- · face gels
- hair coloring and bleaching
- make-up and make-up removal



guarantee the consumer satisfaction



improvement of Personal Care formulations



value for money



EXOcare HTW1

Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua

Chemical name	Alcohols, C13, branched, ethoxylated and castor oil, hydrogenated, Ethoxylated, water solution	
INCI name	Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua	
Function	Blend of non-ionic surfactants. The product is used primarily as a solubiliser	
Technical requirements	Appearance at temperature (20÷25)°C	liquid
	Colour in Hazen scale 40°C	max 150
	pH of 5% solution	5 ÷ 7
	Water, %(m/m)	8 ÷ 10
General data	Solubility in water	good
	Solidification point, °C	approx4
	Density at 25°C, g/mL	approx. 1.04
	Viscosity at 25°C, cP	below 1000

Cleaning micellar lotion

Phase	INCI name	Brand name	Concentration [%]	Function
Α	Aqua	-	84.96	solvent
А	Sodium Benzoate	-	0.25	preservative
Α	Potassium Sorbate	-	0.25	active
В	Poloxamer 184	EXOmer L64	3.00	surfactant
В	Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua	EXOcare HTW1	4.00	solubiliser
В	Glycerin	-	1.00	moisturizer
В	Propylene Glycol	-	6.00	solvent
В	Parfum	_	0.50	fragrance
В	Citric acid	_	0.04	pH adjuster

Appearance	visual method	transparent liquid
рН		4.8-5.5
Stability	1 month in 5°C, 20°C, 40°C	confirmed

- **1.** Aqua heat to 40 50°C. In main beaker mix aqua with Sodium Benzoate and Potassium Sorbate (phase A).
- **2.** Add ingredients from phase B to the main beaker and mix.
- **3.** Check pH, if necessary add more Citric Acid to 4.8-5.5.

Cleaning facial foam wash

Phase	INCI name	Brand name	Concentration [%]	Function
Α	Aqua	-	92.29	solvent
Α	Betaine	-	0.25	active substance
В	Glycerin	-	1.00	moisturizer
С	Sodium Lauroyl Sarcosinate	ROKAtend LS	4.00	surfactant
D	Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua	EXOcare HTW1	2.00	solubiliser
D	Methylparaben, Ethylparaben	-	0.40	preservative
E	Citric acid	-	0.06	pH adjuster

Appearance	visual method	transparent liquid
рН		5.5-6.5
Stability	1 month in 5°C, 20°C, 40°C	confirmed

- 1. Aqua heat to 40 50°C. In main beaker mix warm Aqua with Betaine (phase A).
- 2. Phase B add to phase A and mix.
- 3. Next add ROKAtend LS (phase C) and mix until clear solution is obtained.
- **4.** In other baker mix phase D.
- **5.** To the main baker add phase D and phase E.
- **6.** Check pH, if necessary add more Citric Acid to 5.5-6.5.

Men body foam with cooling effect

Phase	INCI name	Brand name	Concentration [%]	Function
Α	Aqua	-	78.15	solvent
Α	Sodium Benzoate, Potassium Sorbate, Aqua	-	0.50	preservative
В	Ammonium Lauryl Sulfate	ROSULfan A70	5.00	surfactant
В	Glycerin	-	1.50	moisturizer
В	Caprylyl/ Decyl Glucoside	-	4.00	surfactant
В	Trideceth-9 (and) PEG-40 Hydroge- nated Castor Oil (and) Aqua	EXOcare HTW1	0.50	solubiliser
С	Menthyl Lactate	-	1.00	refreshing
С	Propylene Glycol	-	4.00	solvent
D	Cocamidopropyl Betaine	ROKAmina K30	5.00	surfactant
D	Parfum	-	0.25	fragrance
D	CI 42090	-	0.10	dye
D	Lactic Acid	-	for pH 4.7-5.5	pH adjuster

Appearance	visual method	blue liquid
рН		4.7-5.0
Stability	1 month in 5°C, 20°C, 40°C	confirmed

- 1. In main vessel combine ingredients from phase A mix until uniform.
- 2. Next add ROSUlfan A70 and mix.
- 3. Add Glycerin and Caprylyl/Decyl Glucoside, mix.
- 4. In next step add EXOcare HTW1 and mix.
- **5.** In separate vessel mix Menthyl Lactate with Propylene Glycol (phase C) until uniform. Next add it to main vessel and mix.
- 6. Add ROKAmina K30 and mix until uniform.
- 7. Add Parfum and Pigment, mix.
- 8. Control the pH range if necessary, add Lactic Acid for pH 4.7-5.5.

Make-up removing liquid

Phase	INCI name	Brand name	Concentration [%]	Function
Α	Aqua	-	92.19	solvent
Α	Betaine	-	0.25	active substance
В	Poloxamer 184	EXOmer L64	0.20	surfactant
В	PEG-6 Caprylic/Capric Glycerides	ROKAcet CC6	4.00	surfactant
В	Glycerin	-	1.00	moisturizer
С	Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua	EXOcare HTW1	1.00	solubiliser
С	Parfum	-	0.30	fragrance
С	Phenoxyethanol, Ethylhexylglycerin	-	1.00	preservative
D	Citric acid	-	0.06	pH adjuster

Appearance	visual method	transparent liquid
рН		5.5-6.5
Stability	1 month in 5°C, 20°C, 40°C	confirmed

- 1. In main beaker mix Aqua with Betaine (phase A).
- 2. Phase B add to phase A and mix.
- 3. In other baker mix phase C.
- **4.** To the main baker add phase C and add Citric Acid.
- **5.** Check pH, if necessary add more Citric Acid to 5.5-6.5.

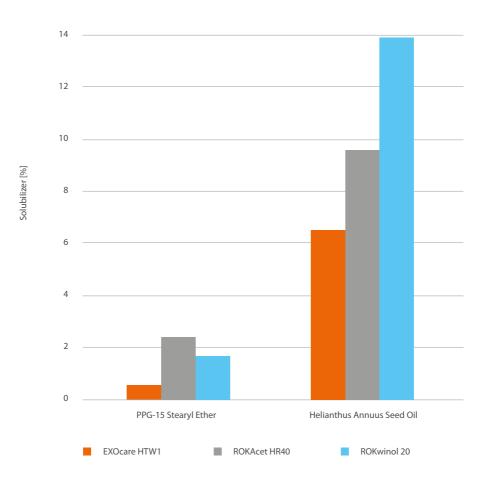
Solubilization test

Solubilizers make it possible to dissolve insoluble or hardly soluble substances, such as fragrances, essential oils, fatty substances, in an aqueous medium. These substances are mainly used in products in which the main ingredient is water or when there is a low alcohol content in the solution. Solubilizers form a dispersion, so that finished products do not require mixing or shaking before use. They are mainly used in

formulations such as makeup removers, tonics, gels, body and hair care products.

Solubilization test determining the amount of solubilizer needed to introduce 0.5% of water-insoluble components to obtain a clear mixture.

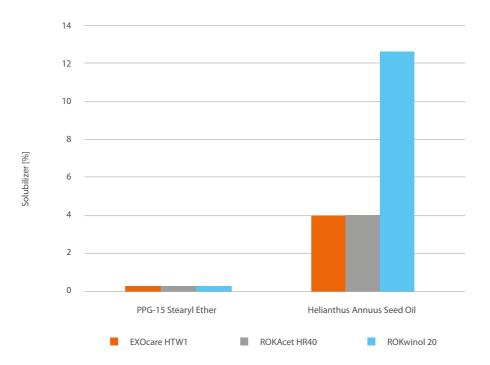
Input system: Insoluble substance – Solubilizer – Water



Solubilization test determining the amount of solubilizer needed to introduce 1% of water-insoluble component into formulation and obtain a clear

mixture.

Input system: Insoluble substance – Solubilizer – Water-Surfactants







EXOcare HTW1Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua	

EXOc	are HTW1Trideceth-9 (and) PEG-40 Hydrogenated Castor Oil (and) Aqua



PCC Exol SA
Sienkiewicza 4
56-120 Brzeg Dolny, Poland
products@pcc.eu

Please visit our capital group business platform

www.products.pcc.eu



April 2025

The information in the catalogue is believed to be accurate and compiled to the best of our knowledge; however, it should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

he suggestions for product applications are based on our best knowledge

The responsibility for the use of products in conformity or otherwise with the suggested application, and for determining product suitability for the user's own purposes rests with the user.

All copyright and trademark rights, as well as other intellectual and industrial property rights and the resulting rights to use this publication and its contents have been transferred to PCC Rokita SA or PCC EXOL SA or its licensors. All rights reserved. Users/readers are not entitled to reproduce this publication in whole or in part, nor are they entitled to reproduce if (excluding reproduction for personal use) or to transfer it to third parties.

Permission to reproduce it for personal use does not apply to data used in other publications, electronic information systems,