



# ROKAcet KO400G

## PEG-6 Glyceryl Cocoate

Local. Global. Integrated.

Operating in 17 countries, in 39 different locations, PCC SE currently employs over 3 300 people.



# About us

PCC Exol SA is a major player in the European surfactants market. In the eastern and central-eastern part of the continent, it is the undisputed leader in its industry. Most of the production facilities and the company's headquarters are located in Brzeg Dolny, Poland. Here we develop, test and manufacture a wide range of anionic, non-ionic and amphoteric surfactants and speciality industrial formulations. New products are continuously added to the portfolio in response to market trends and individual customer requirements. The surfactants produced at the plants have a very wide range of industrial applications.

They are used as wetting agents, emulsifiers, auxiliaries in paper, metallurgy and many other industries, as well as in household chemicals, personal care products and textiles. PCC EXOL pays special attention to the issue of sustainable development, which is one of the key elements of the company's strategy. In order to strengthen its competitive position in the surfactants market, the company is committed to promoting responsible production and consumption throughout the value chain. The concept of sustainable development is therefore a key aspect of all the company's management and operational processes.

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<b>Polyols</b> 	<b>Chlorine</b> 	<b>Phosphorus</b> 	<b>Surfactants</b> 	<b>Alkylphenols</b> 
<ul style="list-style-type: none"> <li>• Polyether polyols</li> <li>• Polyester polyols</li> <li>• Prepolymers</li> <li>• Polyurethane Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Chlorine</li> <li>• MCAA</li> <li>• Other Chlorine Downstream Product</li> </ul>	<ul style="list-style-type: none"> <li>• Phosphorus derivatives</li> <li>• Naphthalene derivatives</li> <li>• Polycarboxyethers (PCE)</li> </ul>	<ul style="list-style-type: none"> <li>• Anionic surfactants</li> <li>• Cationic surfactants</li> <li>• Nonionic surfactants</li> <li>• Amphoteric surfactants (betaines)</li> <li>• Chemical formulation</li> </ul>	<ul style="list-style-type: none"> <li>• Nonylphenol</li> <li>• Dodecylphenol</li> <li>• Tristyrylphenol</li> </ul>
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<b>Consumer Products</b> 	<b>Energy</b> 	<b>Logistics</b> 	<b>Silicon</b> 	<b>Holding &amp; Projects</b> 
<ul style="list-style-type: none"> <li>• Household &amp; industrial Cleaners, Detergents and Personal Care Products</li> </ul>	<ul style="list-style-type: none"> <li>• Renewable Energy</li> <li>• Conventional Energy</li> </ul>	<ul style="list-style-type: none"> <li>• Intermodal transport</li> <li>• Road Haulage</li> <li>• Rail Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Microsillica</li> <li>• Silicon Metal</li> </ul>	<ul style="list-style-type: none"> <li>• Portfolio Management</li> <li>• Project Development</li> </ul>

# ROKAcet KO400G

## Chemical description

ROKAcet KO400G is a nonionic surfactant, mainly used in detergent applications. This product is based on renewable plant raw materials, such as polyoxyethylene fatty acid esters and glycerine.

The active substance content exceeds 99%. This surfactant is in the form of a straw to light yellow liquid, with a low viscosity and a solidification temperature below -10°C, which makes it easier to handle in process conditions.

### Benefits:

- based on plant crops
- safe, not classified (clp / ghs)
- complies with ecolabel and nordic swan requirements
- high biodegradability
- concentrated form

### Physicochemical parameters

• Appearance at temperature (20-25°C)	liquid
• Colour (Haznen units) (20-25°C)	max 120
• pH of 5% solution	5.4-6.9
• Saponification value, mg KOH/g	57-62
• Hydroxyl number, mg KOH/g	285-295

## Hydrotrope

ROKAcet KO400G is an excellent product for use in detergent formulations with very high concentration. The use of this product in the formulation eliminates the need for the use of solvents. In order to present its very good hydrotroping properties, a formula of concentrated heavy duty liquid detergent was prepared.

The use of ROKAcet KO400G allowed to obtain a stable, clear formulation. The appearance of the formulations with the use of Laureth-7 and C13-15 pareth-7 is also presented below - the effect of using these products is to obtain cloudy systems or even as a gel.

## Concentration heavy duty liquid detergent

Product name	with ROKAcet KO400G	with Laureth-7 ROKAnol L7	with C13-15 pareth-7 ROKAnol TMP7
SULFOROKAnol L290/1M	20	20	20
ROKAcet KO400G	30	-	-
ROKAnol L7	-	30	-
ROKAnol TMP7	-	-	30
Sodium citrate	2	2	2
Water	up to 100	up to 100	up to 100
Appearance (Visual method)	clear liquid	cloudy gel	cloudy liquid

with ROKAcet KOO400G

with Laureth-7

with C13-15 pareth-7



with ROKAcet KOO400G

with Laureth-7

with C13-15 pareth-7



## Washing liquid detergent

### Heavy duty liquid detergent, HDLD – ecolabel

Inci name	Brand name	Concentration [%]	Function
Sodium Laureth Sulfate	SULFOROKAnol L227/1	30.0	Removes stains/ foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	10.0	Breaks down stains
Potassium Cocoate	EXOsoft PC35	3.0	Breaks down stains
Tetrasodium Glutamate Diacetate	N,N-Dicarboxymethyl glutamic acid tetrasodium salt (GLDA), 40%	2.0	Chelator
Sodium Citrate	Sodium citrate	2.5	Chelator
Fluorescent Brightener	Fluorescent brightener	0.1	Optical brightener
Enzymes	Multi-enzyme blend, liquid	0.2	Breaks down different types of stains
Aqua	Water	up to 100.0	Solvent

<b>Appearance</b>	visual method	clear liquid
<b>pH</b>		7.0 - 8.0
<b>Viscosity [cP]</b>	Brookfield LV, T: 20°C	up to 100
<b>Stability</b>	1 month at 5°C, 20°C, 40°C	confirmed

### Procedure:

1. Mix Optical brightener with water until dissolved.
2. Add Sodium citrate and mix until a homogeneous solution is obtained.
3. Then add SULFOROKAnol L227/1 and mix.
4. Add ROKAcet KO400G and mix.
5. Then add EXOsoft PC35 and mix a homogeneous solution is obtained.
6. Mix GLDA and finally, add the enzyme blend.
7. Mix until a clear liquid is obtained.

## Washing liquid detergent

### Universal liquid detergent, ULD – ecolabel

Inci name	Brand name	Concentration [%]	Function
Sodium Laureth Sulfate	SULFOROKAnol L227/1	40.0	Removes stains/ foaming agent
Magnesium Laureth Sulfate	-	5.0	Removes stains/ foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	10.0	Breaks down stains
Potassium Oleate	EXOsoft PO30	3.0	Breaks down stains
Glycerin	Glycerin	6.0	Prevents products from drying out
Tetrasodium Glutamate Diacetate	N,N-Dicarboxymethyl glutamic acid tetrasodium salt (GLDA), 40%	2.5	Chelator
Fluorescent Brightener	Fluorescent brightener	0.1	Optical brightener
Enzymes	Multi-enzyme blend, liquid	0.2	Breaks down different types of stains
Aqua	Water	up to 100.0	Solvent

<b>Appearance</b>	visual method	clear liquid
<b>pH</b>		7.0 - 8.0
<b>Viscosity [cP]</b>	Brookfield LV, T: 20°C	up to 100
<b>Stability</b>	1 month at 5°C, 20°C, 40°C	confirmed

### Procedure:

1. Mix Optical brightener with water until dissolved.
2. Add SULFOROKAnol L227/1 and Magnesium Laureth Sulfate.
3. Mix until a homogeneous solution is obtained
4. Then add ROKAcet KO400G and mix.
5. Then add EXOsoft PC35 and mix a homogeneous solution is obtained.
6. Mix Glycerin and GLDA.
7. Finally, add the enzyme blend and mix until a clear liquid is obtained.

## Performance tests of washing liquid detergents

Detergency - the ability of the detergent to remove soils from the fabric surface during the laundering process. Detergency tests were performed using our own method, with a different soils:

### Enzymatic

- Blood, aged
- Chocolate ice cream, aged

### Bleachable

- Curry
- Wine, aged
- Grass/mud, with thickening agent
- Highly discriminative tea
- Grass, pure
- Standard clay
- Beta-carotene on cotton, circular stain
- Baby food carrot/potato

### Greasy

- Fluid make-up
- Spaghetti sauce with beef
- Butter with colorant
- Beef fat, colored with Sudan Red
- Dirty Motor Oil (DMO)

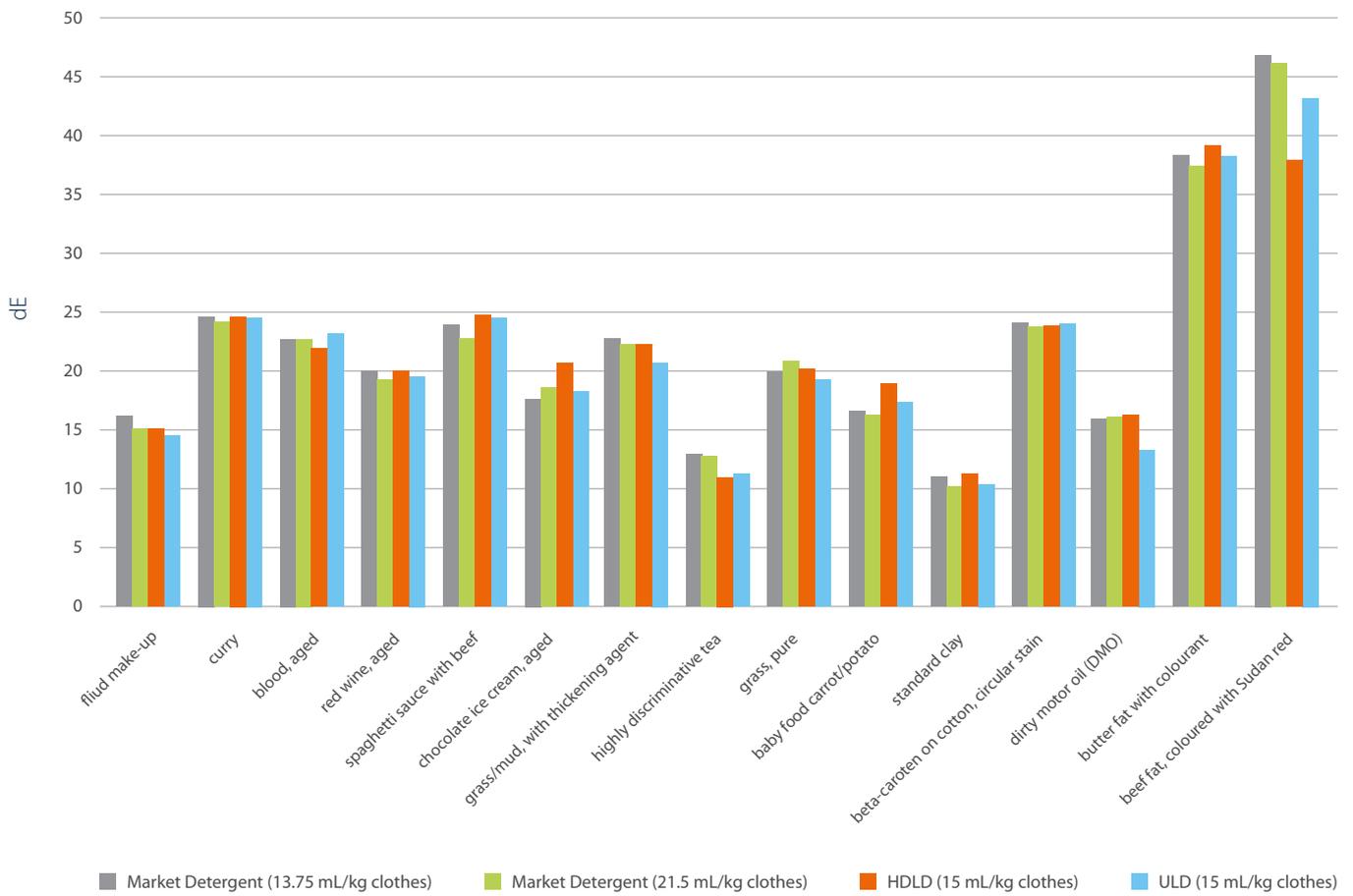
### Test conditions:

- automatic washmachine
- 40°C or cold water (with one of the formulations)
- water hardness 13 °dH
- cotton program
- load - calculated for 2 kg of dry, white towels
- the dosing of the market product was verified with the information on the label
- fabric soiled with standard dirt

After the washing process was performed, the standardly disturbed fabrics were dried and ironed, and then the degree of washing was assessed by measuring parameter dE from the CIE LAB scale, as the difference between the initially disturbed stain and the degree of its washing. The greater dE value, the better the washing outcome.



## Washing liquid



## Washing liquid detergent

### Liquid detergent for low temperature use, LDFLTU – ecolabel

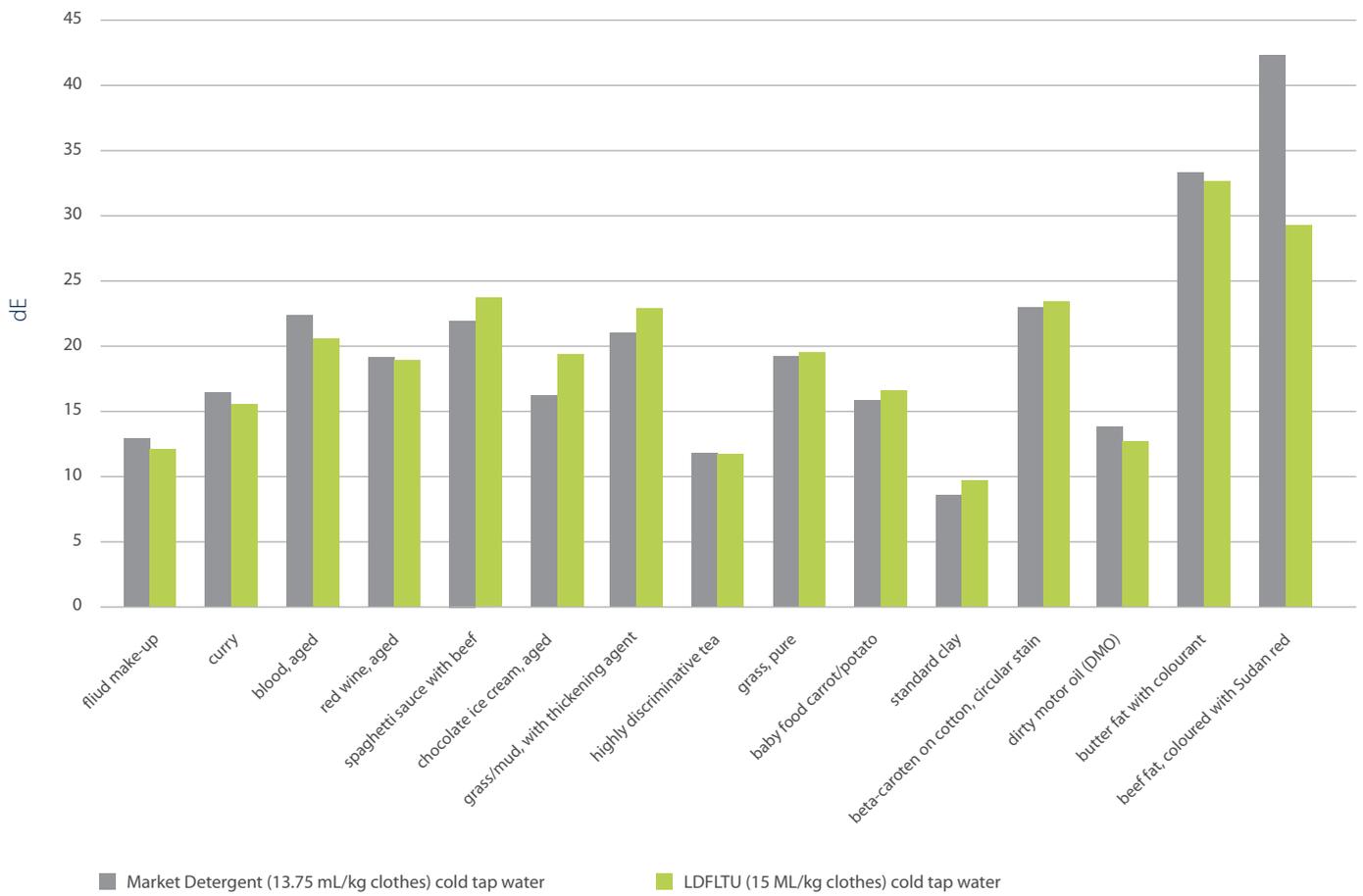
Inci name	Brand name	Concentration [%]	Function
Sodium Laureth Sulfate	SULFOROKAnol L227/1	38.0	Removes stains/ foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	9.0	Breaks down stains
Potassium Cocoate	EXOsoft PC35	7.0	Breaks down stains
Tetrasodium Glutamate Diacetate	N,N-Dicarboxymethyl glutamic acid tetrasodium salt (GLDA), 40%	3.0	Chelator
Sodium Citrate	Sodium citrate	2.5	Chelator
Fluorescent Brightener	Fluorescent brightener	0.1	Optical brightener
Enzymes	Multi-enzyme blend, liquid	0.5	Breaks down different types of stains
Aqua	Water	up to 100.0	Solvent

<b>Appearance</b>	visual method	clear liquid
<b>pH</b>		7.5-8.5
<b>Viscosity [cP]</b>	Brookfield LV, T: 20°C	up to 100
<b>Stability</b>	1 month at 5°C, 20°C, 40°C	confirmed

### Procedure:

1. Mix optical brightener with water until dissolved.
2. Add sodium citrate and mix until a homogeneous solution is obtained.
3. Then add SULFOROKAnol L227/1 and mix.
4. Add ROKAcet KO400G and mix.
5. Then add EXOsoft PC35 and mix a homogeneous solution is obtained.
6. Mix GLDA and finally, add the enzyme blend.
7. Mix until a clear liquid is obtained.

## Washing liquid – low temperature



## Hand dishwashing liquid detergent

### Economic hand dishwashing liquid – ecolabel

Inci name	Brand name	Concentration [%]	Function
Sodium Laureth Sulfate	SULFOROKAnol L277/1	13.5	Removes stains/ foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	4.0	Cleaning agent
Cocamidopropyl Betaine	ROKAmina K30	3.0	Foaming agent/cleaning agent
Sodium Citrate	Sodium citrate	1.0	Chelator
Citric Acid	Citric acid, monohydrate, 50%	0.08	pH adjuster
Sodium Chloride	Sodium chloride	0.8	Thickener
Aqua	Water	up to 100.0	Solvent

Appearance	visual method	clear liquid
pH		5.5-6.5
Viscosity [cP]	Brookfield LV, T: 20°C	3000-3500
Stability	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

1. Mix water with sodium citrate until dissolved.
2. Add SULFOROKAnol L227/1 and ROKAcet KO400G  
– mix until a homogeneous solution is obtained.
3. Then add citric acid solution and ROKAmina K30 - mix.
4. Add NaCl and mix a homogeneous solution is obtained.



## Hand dishwashing liquid detergent

### Natural hand dishwashing liquid – ecolabel

Inci name	Brand name	Concentration [%]	Function
Ammonium Lauryl Sulfate	ROSULfan A70	6.7	Removes stains/ foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	1.0	Cleaning agent
Cocamidopropyl Betaine	ROKAmina K30	3.0	Foaming agent/cleaning agent
Sodium Polyacrylate	EXOlat ZA	0.4	Sequestrant
Sodium Chloride	Sodium chloride	0.4	Thickener
Aqua	Water	up to 100.0	Solvent

<b>Appearance</b>	visual method	clear liquid
<b>pH</b>		5.5-6.5
<b>Viscosity [cP]</b>	Brookfield LV, T: 20°C	3500-3700
<b>Stability</b>	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

1. Mix water with ROSULfan A70 until dissolved.
2. Add EXOlat ZA and ROKAcet KO400G  
– mix until a homogeneous solution is obtained.
3. Then add ROKAmina K30 - mix.
4. Add NaCl and mix a homogeneous solution is obtained.



## Hand dishwashing liquid detergent

### Hand dishwashing liquid – ecolabel

Inci name	Brand name	Concentration [%]	Function
Sodium Lauryl Sulfate	ROSULfan L	9.0	Removes stains/ foaming agent
Sodium Laureth Sulfate	SULFOROKanol L170/1	4.9	Foaming agent/cleaning agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	4.0	Cleaning agent
Cocamidopropyl Betaine	ROKAmina K30	4.8	Foaming agent/cleaning agent
Sodium Polyacrylate	EXOlat ZA	0.3	Sequestrant
Glycerine	Glycerine	5.0	Solvent
Aqua	Water	up to 100.0	Solvent

Appearance	visual method	clear liquid
pH		5.5-6.5
Viscosity [cP]	Brookfield LV, T: 20°C	3500-4500
Stability	1 month at 5°C, 20°C, 40°C	confirmed

### Procedure:

1. Mix water with ROSULfan L and SULFOROKanol L170/1 until dissolved.
2. Add EXOlat ZA, ROKAcet KO400G and glycerine - mix until a homogeneous solution is obtained.
3. Then add ROKAmina K30 and mix a homogeneous solution is obtained.



## Hand dishwashing liquid detergent

### Highly concentrated hand dishwashing liquid

Inci name	Brand name	Concentration [%]	Function
Ammonium Lauryl Sulfate	ROSULfan A70	20.0-25.0	Removes stains/ foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	5.0	Cleaning agent
Laureth-7	ROKAnol L7	2.0	Cleaning agent
Cocamidopropyl Betaine	ROKAmina K30	3.0-10.0	Foaming agent/cleaning agent
Sodium Polyacrylate	EXolat ZA	1.0	Sequestrant
Glycerine	Glycerine	5.0	Solvent
Aqua	Water	57.0-59.0	Solvent

Appearance	visual method	clear liquid
pH		5.5-6.5
dry matter, %		approx. 31
Viscosity [cP]	Brookfield LV, T: 20°C	1500-4000
Stability	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

1. Mix ROSULfan A70 with water and glycerine until dissolved.
2. Add ROKAcet KO400G and mix until a homogeneous solution is obtained.
3. Then add ROKAnol L7 and mix.
4. Add EXolat ZA and mix.
5. Then add ROKAmina K30 and mix a homogeneous solution is obtained.



## Hand dishwashing liquid detergent

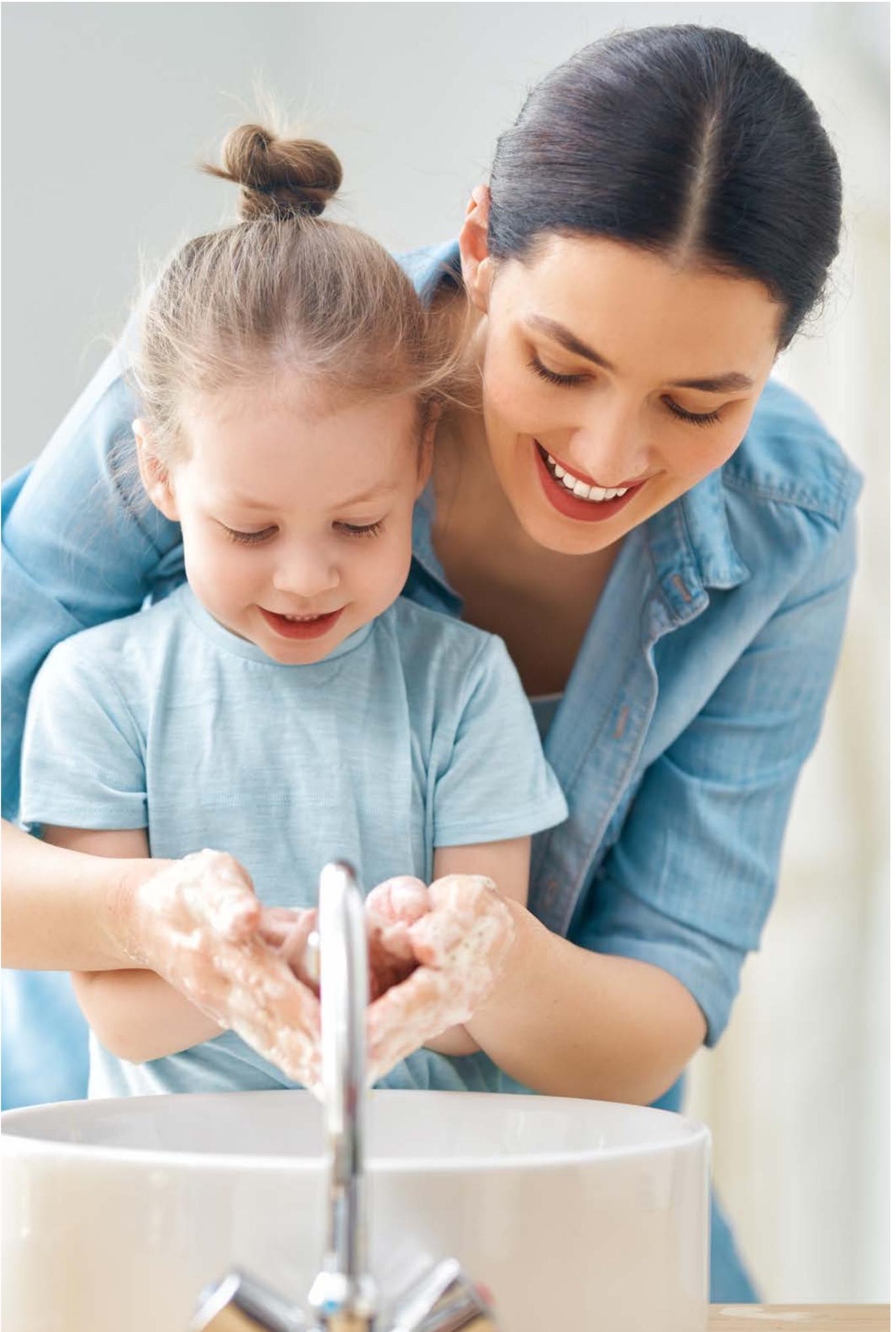
### Highly concentrated hand dishwashing liquid – 2 anionic surfactants

Inci name	Brand name	Concentration [%]	Function
Ammonium Lauryl Sulfate	ROSULfan A70	20.0	Removes stains/ foaming agent
Magnesium Laureth Sulfate	-	11.0	Cleaning agent/foaming agent
PEG-6 Glyceryl Cocoate	ROKAcet KO400G	5.0	Cleaning agent
Laureth-7	ROKAnol L7	2.0	Cleaning agent
Cocamidopropyl Betaine	ROKAmina K30	5.0	Foaming agent/cleaning agent
Sodium Polyacrylate	EXOlat ZA	1.0	Sequestrant
Glycerine	Glycerine	5.0-9.0	Solvent
Aqua	Water	41.0-51.0	Solvent

Appearance	visual method	clear gel
pH		5.5-6.5
dry matter, %		approx. 40
Viscosity [cP]	Brookfield LV, T: 20°C	3500-3400
Stability	1 month at 5°C, 20°C, 40°C	confirmed

#### Procedure:

1. Mix ROSULfan A70 with water and glycerine until dissolved.
2. Add Magnesium Laureth Sulfate and mix until a homogeneous solution is obtained.
3. Then add ROKAcet KO400G and ROKAnol L7 - mix.
4. Add EXOlat ZA and mix.
5. Then add ROKAmina K30 and mix a homogeneous solution is obtained.









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Information in this catalogue is believed to be accurate and to the best of our knowledge, but should be considered as introductory only. Detailed information about our products is available in TDS and MSDS.

Suggestions for product applications are based on the best of our knowledge.

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

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