

# APPYCLEAN 6781S series

Fornito da:

ANDREA GALLO DI LUIGI S.r.l.u.

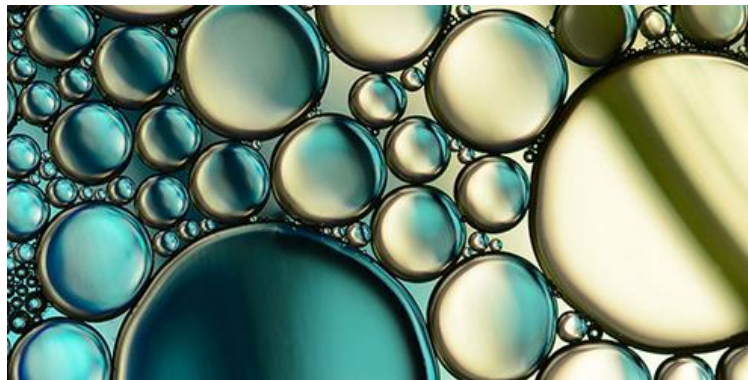
Azienda fondata nel 1892

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[www.andreagallo.it](http://www.andreagallo.it)

APPYCLEAN 6781S / 6781SB / 6781 SC

HIGH PERFORMANCE GREEN SURFACTANTS



- COSMOS APPROVED
- PRESERVATIVE FREE
- VEGAN
- 100% NATURALLY DERIVED
- PALM-FREE AVAILABLE
- LOW LABELLING
- WASTE VALORIZATION

## Product Description

- CHEMICAL DESCRIPTION**  
CAPRYLYL/CAPRYL POLYGLYCOSIDE
- APPEARANCE**  
Lightly coloured to yellow (Gardner < 5)
- DRY MATTER** 60%+/-2%
- DENSITY** 1,14 – 1,16 kg/L
- VISCOSITY** < 1000 mPa.s  
(20°C, spindle 63, spd12)
- CMC** 900-1200 mg/L
- SURFACE TENSION** 27-28 mN/m
- pH** (10% in water) 4,0 – 6,0
- RECOMMENDED USE LEVEL** 2 – 10%
- SOLUBILITY** water soluble

## A NATURAL, SUSTAINABLE & ECO-FRIENDLY SURFACTANT

Derived from 100% natural and widely available sustainable resources, APPYCLEANS 6781S are high performance surfactants.

The polar heads of APPYCLEAN surfactants are made of locally based sugars or coming from lignocellulosic by-products. The lipophilic tail being built up from natural fatty alcohols.

RSPO mass balance APPYCLEAN surfactants are available (Ecolabel compliant).

Readily biodegradable (OCDE 301F), they show a very low ecotoxicity profile for the major sensitive aquatic species.

Moreover, APPYCLEANS 6781S display low labelling hazard and are very mild surfactants for skin and eyes.

Suitable for a wide range of cosmetic applications, they represent an ideal surfactants that fit perfectly with the increasing demand for naturalness, sustainability and efficacy by modern consumers.

## HIGH PERFORMANCE SURFACTANTS

APPYCLEAN 6781S surfactants are preservative-free caprylyl/capryl polyglycoside based composition with low labelling hazard. They exhibit high and stable foaming, good wetting and degreasing properties. Therefore, they are well-suited for I&I Cleaners, Laundry detergents, Liquid hand dish detergents, Car wash...



**wheatoleo**  
THANKS TO NATURE



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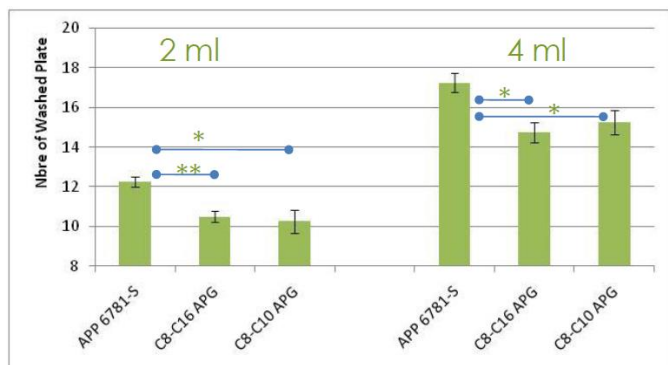
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## STUDIES

Study : *Effect of co-surfactants in Hand Dishwashing detergents*

### APPYCLEAN 6781S SURFACTANTS ENHANCE FOAMING AND DEGREASING PROPERTIES OF FORMULATION



Hand Dishwashing composition:

BASE FORMULA	% DM 1
SLES	7.5
CAPB	2.5
Non ionic surfactants	1.5
Water	Qs 100%

Results:

**APPYCLEAN 6781S GIVE BETTER RESULTS THAN MEDIUM CHAIN APGs WHATEVER THE CONCENTRATION OF DETERGENT**

### APPYCLEAN 6781S SURFACTANTS DISPLAY LOWER LABELLING HAZARD

SPECIAL GRADES OF C8/C10 polyglycosides

APPYCLEAN 6781-S  
APPYCLEAN 6781-SB  
APPYCLEAN 6781-SC

Wetting, washing, foaming, dispersing nonionic surfactants

*Designed for risk free formulations (CLP guidelines)*



**H319**

**No labelling < 10%**

D-Glucopyranose,  
oligomeric, C8-10  
glycosides



**H318**

**No labelling < 1%**

### Benefits and feature



#### 100% NATURALLY DERIVED

Based on green technology, COSMOS approved, preservative-free, EO/PEG-free with excellent biodegradability, ideal for the trend towards natural and healthy cosmetics.



#### HIGH PERFORMANCE GREEN SURFACTANTS

- Display high and stable foaming, good wetting and degreasing properties
- Suitable for I&I Cleaners, Laundry detergents, Liquid hand dishwashing detergents, Car wash



#### PRODUCTS AT GLANCE

- APPYCLEAN 6781S : Standard product
- APPYCLEAN 6781SB : Product with higher concentration of locally sourced raw materials
- APPYCLEAN 6781SC : Lower coloured product



## Formulations guideline

Ingredients	Lessive 34.2	%DM
Water	41,3	
SLES (28%)	12,9	3,6
<b>APPYCLEAN 6886</b>		
Wetting, degreasing, thickening	6,8	3,4
<b>APPYSOAP 7024</b>	21,7	6,5
<b>APPYCLEAN 6781S</b>		
Foaming, solubilising, degreasing	1,5	0,9
<b>APPYCLEAN 6505</b>		
Hydrotrope, no foaming	3,0	1,8
Trisodium citrate	4,0	4,0
EtOH	4,0	3,8
Propylene glycol	1,0	1,0
Sodium carbonate	0,4	0,4
NaCl	3,0	3,0
Potassium sorbate	0,5	0,5
	H319	29,0

### Physical properties

Appearance: clear viscous liquid  
pH=8,5  
Viscosity: 80 CPS  
(Brookfield, spindle 63, speed 12)  
Stability: 3 months 4, 20, 45°C

### Baby laundry detergent



### Advantages

- Enzyme-free
- Bleaching agent-free
- CAPB free
- Fragrance-free
- Mild surfactant
- Naturally-derived biodegradable

### Automatic dishwash gel (All in one)

Ingredients	GLV3	%DM	GLV2	%DM
Water	59,1		58,8	
Trisodium citrate	10,0	10,0	15,0	15,0
Iminodisuccinate sodium salt	5,0	1,7	5,0	1,7
Sodium lactate	3,0	1,0	3,0	1,0
Sodium Gluconate	5,0	5,0	-	-
<b>APPYCLEAN 6781S</b>				
Foaming, solubilising, degreasing	1,0	0,6	1,0	0,6
<b>APPYCLEAN 6505</b>				
Hydrotrope, no foaming	5,0	3,0	5,0	3,0
Propylene glycol	10,0	10,0	10,0	10,0
Xanthan gum	0,8	0,8	0,8	0,8
Citric acid	0,4	0,4	0,2	0,2
NaCl	0,5	0,5	1,0	1,0
Potassium sorbate	0,2	0,2	0,2	0,2
Amylase, Protease	Qs.			
	Not labelled	33,2	Not labelled	33,5

### Physical properties

Appearance: Clear gel  
pH=7,0-9,0  
Viscosity: 4000-6000CPS  
(Brookfield, spindle 63, speed 12)  
Stability: 3 months 4, 20, 45°C

### Advantages

- Phosphate-free
- Powerful cleaning power on grease and grime even in short/eco cycles
- Shiny effect without the use of rinse aid and limescale remover
- Naturally-derived biodegradable



### hand dishwash liquid

Ingredients	LV 5.2	%DM
Water	Qs.	
SLES (28%)	22,0	6,2
<b>APPYCLEAN 6781SB</b>		
Foaming, solubilising, degreasing	5,0	3,0
CAPB (36%)	8,0	3,0
Citric acid	Qs.	Qs.
NaCl	2,6	2,6
Preservative	0,5	0,5
	H319	15,3

### Advantages

- Economical
- APYCLEAN 6781SB Improves degreasing and wetting properties and is derived from locally sourced raw materials
- Mild surfactants
- Naturally-derived biodegradable



### Physical properties

Appearance: clear viscous liquid  
pH= 4,8-5,0  
Viscosity: 2000-3000CPS  
(Brookfield, spindle 63, speed 12)  
Stability: 3 months 4, 20, 45°C

Ingredients	LR 9	%DM	LR 8	%DM
Water	80,0		79,4	
<b>APPYCLEAN 6781S</b>				
Foaming, solubilising, degreasing	1,7	1,0	-	-
<b>SOPHOROLIPIDS</b>				
Degreasing, solubilising, no-foaming	-	-	2,0	1,0
Citric acid	8,0	8,0	8,0	8,0
Trisodium citrate	1,2	1,2	1,2	1,2
EtOH	9,4	9,0	9,4	9,0
Parfum, Dye	Qs.			
	H319	19,2	H319	19,2

### Physical properties LR 9

Appearance: Clear liquid  
Ready to use  
pH=2,5-2,7  
Stability: 3 months 4, 20, 45°C  
Wetting power (20%w/w): 19sec.  
High foam 5%w/w in tap water: 280ml

### Physical properties LR 8

Appearance: Clear liquid  
Ready to use  
pH=2,5-2,7  
Stability: 3 months 4, 20, 45°C  
Wetting power (20%w/w): 63sec.  
Very low foam

### Rinse aid liquid

### Advantages

- Safe for use and septic system
- Leave dishes sparkling clean, dries, shines, spotless and streakless
- Leaves bathroom sparkling clean and long-lasting shine
- Naturally-derived biodegradable



WHEATOLEO is a French company that develops innovative surfactants for the detergent, industrial, plant protection and cosmetic markets. Ethical and responsible, we offer alternative, 100 % bio-based solutions to meet the current demands of our international customers.

Through its industrial facilities and its application laboratory, WHEATOLEO provides full industrial and technical support to its customers. Do not hesitate to contact us at [contact@wheatoleo.com](mailto:contact@wheatoleo.com)

WHEATOLEO results from the R&D expertise of ARD in green surfactants. WHEATOLEO develops natural surfactants for a wide range of application: Cosmetic, Household detergency, industrial application, agrochemistry



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THANKS TO NATURE

ARD is an open research center which aims at promoting plant resources in industrial applications. ARD is involved in plant fractionation, green chemistry and industrial biotechnology. ARD develops innovating, competitive products friendly to the environment within the vision of industrial sustainability and ecology.

**ard**

Open research center

**WHEATOLEO**  
Green surfactants

**CRISTAL UNION**  
Sugar beet refiner

**CRISTANOL**  
Ethanol plant from wheat & sugar beet

**AIR LIQUIDE**  
CO2 purification

**CHAMTOR**  
Wheat refiner

