

Formulation Guideline

Home Care & Institutional Cleaners



• Appyclean 6505 • Appyclean 6781 • Appyclean 6552 • Sophoclean

Mild & Concentrate Hard Surface Cleaner

pH Inficator : Neutral

ALW GAL-F27

Formulation

A	APPYCLEAN 6552	5.0%
B	Polysorbate 20	1.0%
C	Sodium Laureth Sulfate (28%)	7.1%
D	Cocamidopropylbetaine (30%)	3.0%
E	Glycerine	6.0%
F	Lactic acid (88%)	1.6%
G	Fragrance	QS
H	Water	QS 100%

Evaluation

Aspect : Clear viscous liquid

Used : Diluted in water (0,1 to 1%).

pH = 5,5

Viscosity = 200 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Foaming behavior (1) : Moderate and stable

Surface tension (2) : 27,7 mN/m
(at 0,1% in deionised water)

Mild & Concentrate All-in-One Cleaner

pH Inficator : Neutral

ALW GAL-F36

Formulation

A	APPYCLEAN 6552	6.7%
B	MIPA Laureth Sulfate (61%)	4.9%
C	Cocamidopropyl Betaine (46%)	16.7%
D	Glycerine	6.0%
E	Water	QS 100%

Evaluation

Aspect : Clear viscous liquid

Used : Diluted in water (0,1 to 1%).

pH = 5,0

Viscosity = 300 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Foaming behavior (1) : Moderate and stable

Manual dishwashing

pH indicator : Neutral

ALW V-08

Formulation

A	Sodium Laureth 4 Sulfate (28%)	10.0%
B	Sodium Lauryl Sulfate (20%)	4.9%
C	APPYCLEAN 6552	5.0%
D	APPYCLEAN 6505	3.0%
E	Tetrasodium iminodisuccinate (34%)	0.4%
F	Fragrance	QS
G	NaCl	QS
H	Water	QS 100%

Evaluation

Aspect : Clear viscous Liquid

pH = 7.1

Viscosity : 570 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Mild Manual dishwashing

pH indicator : Neutral

ALW V-10

Formulation

A	Sodium Laureth 4 Sulfate (28%)	10.0%
B	Sodium Lauryl Sulfosuccinate (40%)	7.0%
C	APPYCLEAN 6552	8.0%
D	Disodium Cocoyl Glutamate	5.0%
E	Fragrance	QS
F	NaCl	QS
G	Water	QS 100%

Evaluation

Aspect : Clear viscous Liquid

pH = 6,5

Viscosity : 400 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Efficiency (Ecolabel) (3) : 15,5 +/- 0,5 dishes
(at 2,5 ml in hard water, ref IKW = 9 +/- 0,5 dishes)

Cleaning Efficiency (4) : 101%
(regarding to ref=Paic vinaigre & Fruits rouges)

Soft for hands Manual dishwashing

pH indicator : Neutral

ALW V-17

Formulation

A	Sodium Laureth 4 Sulfate (28%)	2.0%
B	Glycereth 17 Cocoate	10.0%
C	APPYCLEAN 6552	3.0%
D	APPYCLEAN 6781	7.5%
E	Myristylamine oxide	1.0%
F	Glycerol	5.0%
G	Fragrance	QS
H	NaCl	QS
I	Water	QS 100%

Evaluation

Aspect : Clear viscous Liquid

pH = 6,8

Viscosity : 160 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Manual dishwashing with Sophorolipids

pH indicator : Neutral

ALW SL LV-18

Formulation

A	Sodium Laureth 4 Sulfate (70%)	10.0%
B	Disodium Laureth 3 Sulfosuccinate (41%)	6.0%
C	APPYCLEAN 6552	7.0%
D	SOPHOCLEAN	5.0%
E	Xanthan Gum	0.3%
F	Triethanol amine	0.3%
G	Fragrance	QS
H	Preservative (2-Bromo-2-Nitropropane-1,3-diol)	QS
I	Water	QS 100%

Evaluation

Aspect : Clear viscous Liquid

pH = 6,6

Viscosity : 356 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Efficiency (Ecolabel) (3) : 8,75 +/- 0,8 dishes
(at 2,5 ml in hard water, ref IKW = 9 +/- 0,5 dishes)

Surface Tension (2): 30.6 mN/m
(at 2% in desionised water)

Ecological Manual dishwashing (without LES)

pH indicator : Neutral

ALW SL LV13

Formulation

A	SOPHOCLEAN	5.4%
B	APPYCLEAN 6552	5.0%
C	Sodium Lauryl Sulfate	4.0%
D	Cocamidopropyl Betaine	2.0%
E	Xanthan Gum	0.3%
F	Tri-ethanol-amine	0.3%
G	Fragrance (citrus)	0.1%
H	Preservative (2-Bromo-2-Nitropropane-1,3-diol)	0.05%
I	Water	QS 100%

Evaluation

Aspect : Clear viscous Liquid

pH = 6,9

Viscosity : 620 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Surface Tension (2) :28.4 mN/m
(at 2% in desionised water)

Windows Cleaner

pH indicator : Neutral

ALW LV-A11

Formulation

A	Ethanol	8.0%
B	APPYCLEAN 6781	0.2%
C	Sodium Lauryl Sulfate	0.1%
D	Ammonium Hydroxyde (1%)	0.25%
E	Guerbet Alcohol	1.2%
F	Fragrance	QS
G	Blue Fye	QS
H	Water	QS 100%

Evaluation

Aspect : Clear Liquid

pH : 7.2

Foaming behavior (1) : Very Moderate

Hard Surface Cleaner

pH indicator : Alkaline

ALW HSC17'

Formulation

A	APPYCLEAN 6781	3.0%
B	APPYCLEAN 6505	4.5%
C	Sodium Laureth sulfate (28% DM)	2.0%
D	Sodium oleate	1.0%
E	Limonene	0.5%
F	Sodium Bicarbonate	0.5%
G	Sodium hydroxyde (2M)	2.5%
H	Fragrance	QS
I	Preservative	QS
J	Water	Q.S 100%

Evaluation

Aspect : Clear solution

pH = 9,5

Foaming behavior (1) : Moderate / unstable

Ecologica Hard Surface Cleaner

pH indicator : alkaline

ALW HSC9'B1

Formulation

A	APPYCLEAN 6781	3.0%
B	APPYCLEAN 6505	0.5%
C	β -Alanine, N-(2carboxyethyl)N-Coco alkyl	2.0%
D	Sodium oleate	1.0%
E	Sodium Bicarbonate	0.5%
F	Sodium hydroxyde (2M)	2.5%
G	Fragrance	QS
J	Water	Q.S 100%

Evaluation

Aspect : Clear solution

pH = 9,9

Foaming behavior (1) : Moderate / stable

Ecological Hard Surface Cleaner (Spray)

pH indicator : Alkaline

ALW SL D02

Formulation

A	SOPHOCLEAN	1.0%
B	Tetrasodium-Iminodisuccinate (34%)	3.0%
C	Sodium Bicarbonate	0.5%
D	Fragrance	QS %
E	Water	QS 100%

Evaluation

Aspect : Clear Liquid

pH = 9.5

Foaming behavior (1) : No foam.

Surface Tension (2) : 33.7 mN/m
(at 0,7% in hard water)

Professional Floor Surface Cleaner

pH indicator : Alkaline

ALW FSC Wi3''

Formulation

A	APPYCLEAN 6781	2.5%
B	APPYCLEAN 6505	9.0%
C	C9/C11 Ethoxylated (5,5) fatty alcohols	2.5%
D	Sodium oleate	2.0%
E	Guerbet Alcohol	1.2%
F	Triethanolamine	1.3%
G	Sodium hydroxyde (30.5%)	QS
H	Fragrance	QS
I	Water	QS 100%

Evaluation

Aspect : Clear Liquid

pH = 12

Foaming behavior (1) : No foam.

Surface Tension (2) : 27.2 mN/m
(at 0,7% in hard water)

Professional Oven Cleaner

pH indicator : Alkaline

ALW OC-10

Formulation

A	APPYCLEAN 6781	5.0%
B	APPYCLEAN 6505	1.0%
C	Sodium oleate	1.25%
D	Sodium Metasilicate	1.5%
E	Sodium hydroxyde (30.5%)	1.65%
F	Fragrance	QS
G	Water	QS 100%

Evaluation

Aspect : Clear Liquid

pH = 12,5

Alkalinity (g NaOH/100ml) : 0,7

Foaming behavior (1) : Moderate / Stable

Surface Tension (2) : 28.1 mN/m
(at 1% in hard water)

Efficiency (4) : 80 +/-3%

Toilet Bowl Cleaner

pH indicator : Acidic

ALW WC-10

Formulation

A	Citric Acid	4.0%
B	APPYCLEAN 6781	2.0%
C	APPYCLEAN 6505	2.0%
D	Hydroxyethylcellulose	0.55%
E	Tri-sodium Citrate	0.7%
F	Fragrance	QS
G	Blue Dye	QS
H	Water	QS 100%

Evaluation

Aspect : Clear blue gel.

pH : 2.6

Foaming behavior (1) : Medium / Stable

Limescale Efficiency (5) : 58 %
(regarding to HCl 1N)

Low Foaming Toilet Bowl Cleaner

pH indicator : Acidic

ALW SL-gel WC-03

Formulation

A	Lactic Acid	3.0%
B	SOPHOCLEAN	3.0%
C	2-Ethylhexyl sulfate	1.3%
D	Xanthan Gum	0.3%
E	Fragrance (fir forest)	0.08%
F	Blue Dye	QS
G	Water	QS 100%

Evaluation

Aspect : Clear blue gel.

pH : 2.2

Viscosity = 451 cps
(20°C, Brookfield DVII, Mod 63, 12rpm)

Surface Tension (2) : 38.7 mN/m
(at 0,1% in deionised water)

Bathroom Cleaner

pH indicator : Acidic

ALW anti-cal 01

Formulation

A	Acetic Acid (97%)	8.0%
B	SOPHOCLEAN	2.0%
C	Sodium Laureth Sulfate (70%)	4.0%
D	Water	QS 100%

Evaluation

Aspect : Clear Liquid

pH : 2.5

Surface Tension (2) : 30.7 mN/m
(at 0,7% in deionised water)

Ecological Limescale Remover (gel)

pH indicator : Acidic

ALW WC-03

Formulation

A	Lactic Acid	4.0%
B	APPYCLEAN 6781	2.0%
C	APPYCLEAN 6505	1.1%
D	Xanthan Gum	0.5%
E	Tetrasodium-Iminodisuccinate (34%)	0.7%
F	Fragrance	QS
G	Water	QS 100%

Evaluation

Aspect : Clear gel.

pH : 2.7

Foaming behavior (1) : Medium / Stable

Limescale Efficiency (5) : 94 %
(regarding to HCl 1N)

Ecological Limescale Remover

pH indicator : Acidic

ALW Antical-03

Formulation

A	Acetic Acid (97%)	3.0%
B	Citric Acid	3.0%
C	APPYCLEAN 6781	0.8%
D	SOPHOCLEAN	0.5%
E	Fragrance (Pine)	0.7%
F	Water	QS 100%

Evaluation

Aspect : Clear liquid

pH : 1.9

Surface Tension (2) : 33.8 mN/m
(at 0,7% in deionised water)

Ecological Acidic Rinse Aid (for Dishwashing)

pH indicator : Acidic

ALW Liq.R3

Formulation

A	Citric Acid	19.5%
B	SOPHOCLEAN	9.6%
C	β -Alanine, N-(2-carboxyethyl)N-coco alkyl derivative	4.77%
D	Ethanol (96%)	5.0%
E	Water	QS 100%

Evaluation

Aspect : Clear Liquid.

pH : 1.9

Foaming behavior (1) : No foam



(1) Foaming behavior : Ross Miles Test according to NFT 73-404.

Foam Capacity = Foam Volume (ml) at T=0 min	Notation
< 100 ml	Very Moderate
100 to 350	Moderate
350 to 550	High
Stability (% of residual volume after 20 min)	
< 20%	Unstable
20-50%	Slight stable
> 50%	Stable

(2) Surface tension measured with Wilhelmy plate method at 25°C (Kruss, K100 Tensiometer)

(3) Efficiency according to IKW guideline (and ECOLABEL) “ Recommendation for the quality assessment of the cleaning performance of hand dishwashing detergents”, SÖFW Journal, 128, 5-2002.

(4) Degreasing efficiency according to internal test closed to IKW guideline « Recommendation for the Quality Assessment of the Product Performance of All-Purpose Cleaners » , SÖFW Journal 9-2005. Assessment by measurement of light reflectance before and after washing. Soiled based on food ingredients burned at 120°C.

(5) Anti limescale efficiency according to internal test. A marble plate is immerge into 50ml of solution during 24H at 25°C. The efficiency is determined by the measure of mass-loss after this period. All measures are repeat 5 time and expressed regarding to the result obtained with HCL 0,1N (efficiency = 100%)