

# Formulation Guideline

*Industrial & Institutional Applications*



• APPYLCLEAN 6505 • APPYCLEAN 6781 • APPYCLEAN 6552

# Water base Degreaser

*pH indicator : Alkaline*

ALW DFZ

## Formulation

<b>A</b>	<b>APPYCLEAN 6552</b>	<b>1.5%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>13.3%</b>
<b>C</b>	<b>Tetrasodium Iminodisuccinate (34%)</b>	<b>1.5%</b>
<b>D</b>	<b>2-Hexyl-decanol</b>	<b>0.1%</b>
<b>E</b>	<b>Citric Acid (20%)</b>	<b>0.3%</b>
<b>F</b>	<b>Water</b>	<b>QS 100%</b>

## Evaluation

Aspect : Clean & colored liquid

pH : 12.4

Alkalinity : 2.02 (g NaOH/ 100ml)

Foaming behavior (1) : Moderate / Unstable

Surface Tension (2) : 27.7 mN/m  
(at 1% in tap water)

# Highly Alkaline Cleaner

*pH Indicator : Alkaline*

ALW SB6

## Formulation

<b>A</b>	<b>APPYCLEAN 6552</b>	<b>5.0%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>13.3%</b>
<b>C</b>	C8/C10 EO/PO alcohol	5.0%
<b>D</b>	EDTA	2.0%
<b>E</b>	Sodium Hydroxide (40%)	7.6%
<b>F</b>	Water	QS 100%

## Evaluation

Aspect : Clear & Colored liquid

pH (1% in water) : 11.3

Foaming behavior (1) : Moderate / slight stable  
(at 0,1% in desionised water)

Surface tension (2) : 32.5 mN/m  
(at 0,1% in desionised water)



# Cleaner for C.I.P

pH Indicator : Alkaline

ALW Cmu14

## Formulation

<b>A</b>	<b>APPYCLEAN 6781</b>	<b>3.7%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>10.0%</b>
<b>C</b>	2-ethyl-hexyl sulfate (40%)	5.0%
<b>D</b>	Tetra-sodium Iminodisuccinate (34%)	5.0%
<b>E</b>	Modified Polyacrylic acid, Sodium salt	5.0%
<b>F</b>	1,3 propanediol (biotech.)	2.0%
<b>G</b>	Sodium Hydroxide (30.5%)	5.0%
<b>H</b>	Sodium Metasilicate	2.0%
<b>I</b>	Water	QS 100%

## Evaluation

Aspect : Clear & Colored liquid

pH : 12.7

# All-purpose Cleaner

*pH Indicator : Alkaline*

ALW Cmu07

## Formulation

<b>A</b>	<b>APPYCLEAN 6552</b>	<b>4.7%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>10.0%</b>
<b>C</b>	MGDA, Na3 (40%)	2.5%
<b>D</b>	Tetra-sodium Iminodisuccinate (34%)	2.5%
<b>E</b>	Modified Polyacrylic acid, Soium salt	5.0%
<b>F</b>	1,3 propanediol (biotech.)	2.0%
<b>G</b>	Adipic, Glutaric, Succinic Methyl esters	2.0%
<b>H</b>	Citric Acid (20%)	QS%
<b>I</b>	Water	QS 100%

## Evaluation

Aspect : Clear liquid

pH : 8.5

Surface tension (2) : 27.4 mN/m  
(at 1% in deionised water)

# Alkaline Cleaner

*pH Indicator : Alkaline*

ALW SE01

## Formulation

<b>A</b>	<b>APPYCLEAN 6552</b>	<b>7.0%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>13.5%</b>
<b>C</b>	C9-C11, Ethoxylated (4) alcohol	5.0%
<b>D</b>	MGDA, Na3 (40%)	5.0%
<b>E</b>	Tri-Poly-phosphate (TKPP)	10.0%
<b>F</b>	Modified Polyacrylic acid, sodium salt	5.0%
<b>G</b>	Water	QS 100%

## Evaluation

Aspect : Clear liquid

pH : 10.5

Foaming behavior (1) : Moderate / Stable  
(0,1% in desionised water)

Surface tension (2) 31.4 mN/m  
(at 0,1% in deionised water)

# Solvated Degreaser (microemulsion)

*pH Indicator : Neutral*



ALW EMC 06

## Formulation

<b>A</b>	<b>APPYCLEAN 6552</b>	<b>25.0%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>5.0%</b>
<b>C</b>	Rapeseed Methyl Ester	30.0%
<b>D</b>	PEG-7 Glycereth cocoate	25.0%
<b>E</b>	Water	QS 100%

## Evaluation

Aspect : Clear liquid, microemulsion.

Can be used as degreaser for mineral or silicone based greases.

# Degreaser / Paint Stripper

*pH Indicator : Neutral*



ALW DBE16

## Formulation

<b>A</b>	<b>APPYCLEAN 6552</b>	<b>1.0%</b>
<b>B</b>	<b>APPYCLEAN 6505</b>	<b>37.5%</b>
<b>C</b>	Adipic, Glutaric, Succinic methyl esters	30.0%
<b>D</b>	2-propanol	5.0%
<b>E</b>	2-Hexyl-decanol	0.5%
<b>F</b>	Disodium octyl-sulfosuccinate (70%)	1.0%
<b>G</b>	Water	QS 100%

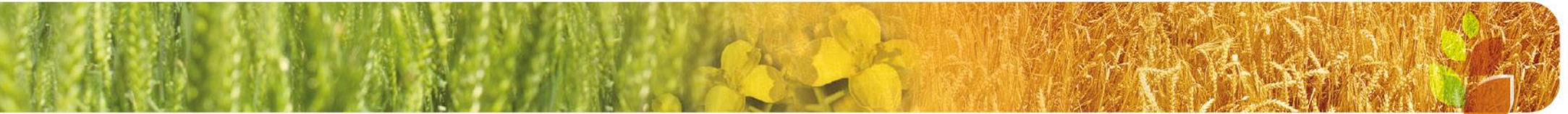
## Evaluation

Aspect : Clear liquid, microemulsion.



# Solution For Wipe Impregnation

*pH Indicator : acidic*



ALW WL02

## Formulation

<b>A</b>	Ethyl Alcohol	8.0%
<b>B</b>	PEG 400 Monolaurate	4.0%
<b>C</b>	<b>APPYCLEAN 6781</b>	<b>0.5%</b>
<b>D</b>	Fragrance	QS%
<b>E</b>	Preservative	QS%
<b>F</b>	Water	QS 100%

## Evaluation

Aspect : Clear liquid

pH : 4.0

Foaming behavior (1) : Moderate / Unstable

Wetting time (3) : 13 s

Dynamic Surface tension (4) : 35.2 mN/m

# Industrial Hand-Cleaner

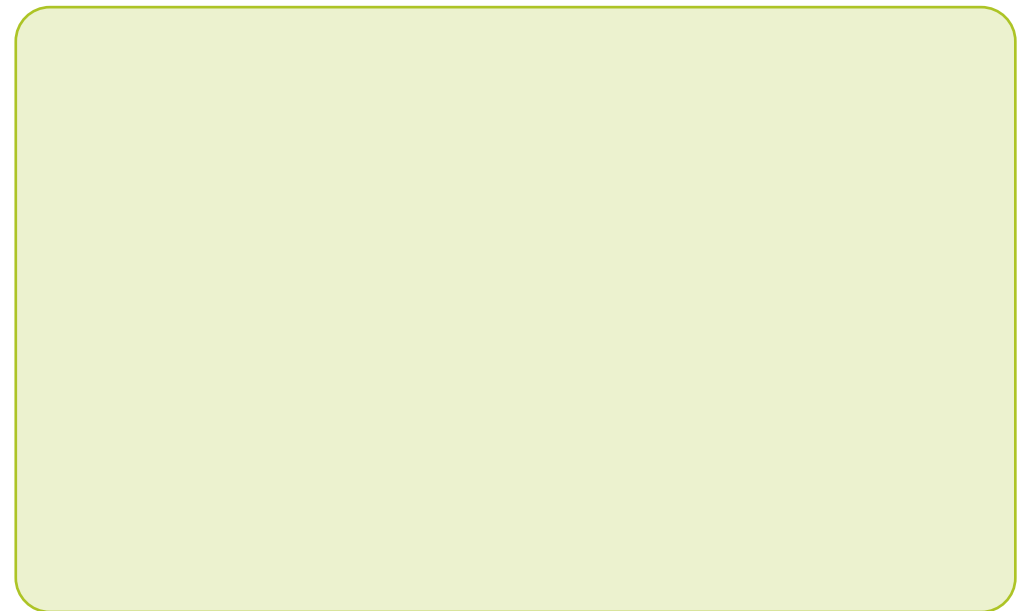
*pH Indicator : neutral*

ALW Sa03

## Formulation

<b>A</b>	Xanthan Gum	0.5%
	Medium Polyethylene	5.0%
	Water	50.0%
<b>B</b>	<b>APPYCLEAN 6781</b>	<b>3.5%</b>
	<b>APPYCLEAN 6552</b>	<b>4.2%</b>
	Sorbitan Monolaurate	1.8%
	Water	35.0%

## Evaluation





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

**Foam Capacity = Foam Volume (ml) at T=0 min**

< 100 ml	Very Moderate
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100 to 350	Moderate
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350 to 550	High
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**Stability (% of residual volume after 20 min)**

< 20%	Unstable
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20-50%	Slight stable
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> 50%	Stable
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(2) Surface tension measured with Wilhelmy plate method at 25°C (Kruss, K100 Tensiometer)

(3) Wetting test performed with Drave's method : time (in seconds) necessary to do sink a normalised disc fabric in solution at 25°C.

(4) Dynamic surface tension measured with a maximum bubble pressure tensiometer (Kruss, BP2). Surface tension (in mN/m) at 10 ms and 25°C.