

FORMULATION DATA BASED ON AMA LF40/70

102. Graffiti Remover

Raw Material	% Weight
LAKELAND AMA LF40	10.0
Water	56.0
KOH (Flake)	20.0
Dipropylene Glycol Monobutyl Ether	6.0
Methanol	5.0
Sodium Gluconate	3.0

Recommended dilutions: 10 – 20 : 1

ALUMINIUM/STAINLESS STEEL CLEANER

Raw Material	% Weight
Water	78.0%
Lakeland AMA LF40	5.0%
Lakeland PA 100	10.0%
Alcohol Ethoxylate (C ₁₃₋₁₅ + 9EO)	2.0%
Butyl Oxitol	5.0%
Apply by spray or cloth neat	

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LOW FOAM RINSE AID FOR DOMESTIC AND INDUSTRIAL DISHWASHING

	Raw Material	% Weight
A	Synperonic LFRA 290*	6%
	Synperonic LFRA 30*	6%
	Citric Acid	5%
	Isopropanol	5%
	Lakeland AMA LF 40	3%
B	Synperonic LFRA 290*	10%
	Synperonic LFRA 260*	2%
	Citric Acid	5%
	Isopropanol	5%
	Lakeland AMA LF 40	5%
	Balance Water	

* Biodegradable Low Foam Alcoholalkoxylates

BEER BOTTLE LABEL REMOVER

Ingredient	WT%
Water	75.00
LAKELAND AMA LF40	1.50
Sodium Gluconate	1.00
Sodium Hydroxide Pearl	22.50

APPLICATIONS

High temperature soak-tank for removing paper labels and cleaning beverage containers

RECOMMENDED DILUTIONS

Dilute 1 part to 8 parts of water to give 2.8% NaOH.

Use a temperature of 65 °C (or higher) to clean bottles.

BOTTLE WASH FORMULATIONS

Ingredient	WT%
Water	80.5
LAKELAND AMA LF40	2.0
Potassium Hydroxide 50%	11.0
Sodium Gluconate	5.0
Low Foam Nonionic	1.5

112 A. Formulation With Good Filling Power For Porous Floor-Coverings:

% Weight	Material
50	LAKEWAX 20
5	Licomer A 53 Conc ⁽¹⁾
45	Water

Mix components in above order at room temperature

⁽¹⁾ Clariant

112 B. Mild Cleaning Solution for Waxed Floors:

% Weight	Material
3	LAKELAND AMA LF40
5	C _{13/15} Alcohol + 6EO
5	TKKP (50 % solution) ⁽¹⁾
87	Water

⁽¹⁾ Tetrapotassium pyrophosphate

113. LOW FOAM FLOOR CLEANER/WAX STRIPPER

	% WEIGHT	RAW MATERIAL
a.	10%	Caflon KP50 (Tetrapotassium pyrophosphate 50%)
	5%	Sodium Tripolyphosphate
	3%	Sodium Metasilicate
	6%	Lakeland AMA LF 40 or PPE 604K
	1%	Ukanil 2357 (Low Foam Fattyalcoholalkoxylate)
		Balance Water
b.	5%	Lakeland AMA LF 40 or AMA
	5%	NTA Solution (40%)
	4%	Ukanil 2357 (Low Foam Fattyalcoholalkoxylate)
	5%	Sodium Metasilicate
	4%	Closol MP2 (Dipropylene-glycolmonoethylether) or Butylethoxol
		Balance Water
c	5.0%	LDP89(Lakeland development product)
	1.0%	Sodium hydroxide
	10.0%	Potassium silicate(50% solution)
	12.0%	Tetra potassium pryophosphate
		Balance water

ALUMINIUM CLEANERS – ALKALI

114 A Soak Tank Cleaner/Brightner

Raw Material	% Weight
Lakeland AMA LF40	6
KOH (50 %)	10
EDTA powder	1
Sodium silicate solution	15
Alcohol Etoxylate (C _{9/11} + 5 – 10 EO)	2
Water	66

114 B Alkali Aluminium Brightner

Raw Material	% Weight
Lakeland AMA LF40	7
KOH (50% solution)	4
NaOH (32% solution)	20
EDTA or NTA powder	5
Alcohol Etoxylate (C _{9/11} + 5 – 10 EO)	2
Water	62

116. NON – CAUSTIC STEAM CLEANER

% Wt	RAW MATERIAL
4	LAKELAND AMA LF70
4	C _{9/11} alcohol + 6/8 EO
8	Sodium Tripolyphosphate
1	Sodium Metasilicate (5H ₂ O)
83	Water

GLASS CLEANERS

118.A Glass Cleaner

% Wt	RAW MATERIAL
2	LAKELAND AMA LF40
2	Acetic Acid
96	Water

118.B Ammoniated Glass Cleaner

% Wt	RAW MATERIAL
2.5	LAKELAND AMA LF40
0.5	EDTA Na ₄
2.5	Ammonia (880/890)
94.5	Water

LAUNDRY CLEANERS

119.A & B Restaurant/Hotel Laundry

% Wt		RAW MATERIAL
A	B	
8	8	LAKELAND AMA LF40
54	50	Water
25	25	KOH (50 % liquid)
8	8	C _{9/11} alcohol + 6-8EO
5	5	STPP
	4	Potassium Silicate

126. Trailer Curtain Cleaner – Low Foam

% Wt	RAW MATERIAL
5.0	LAKELAND AMA LF40
3.0	LAKELAND CS100-LF
6.0	Butyl Diglycol
5.0	TKPP (50%)
7.0	NTA Solution (38%)
3.5	Sodium Hydroxide (32 %)
70.5	Water

Carpet Cleaners

127A Foaming Cleaner, Hand Application

% Wt	RAW MATERIAL
5.0	LAKELAND AMA
2.0	LAKELAND PAE 136
6.0	Lauryl Ether Sulphate (28%)
7.0	Tetrapotassium Pyrophosphate (50%)
3.0	C ₁₄ – C ₁₈ fatty acid 2-ethylhexylester
77.0	Water

Low Foaming Carpet Cleaners

127B

% Wt	RAW MATERIAL
6.0	LAKELAND AMA LF40
2.0	LAKELAND PAE 802
8.0	Sodium Silicate (50%)
6.0	Sodium Tripolyphosphate
4.0	C ₁₄ – C ₁₈ fatty acid 2-ethylhexylester
2.0	NTA Na ₃ (38%)
72.0	Water

127C

% Wt	RAW MATERIAL
6.0	LAKELAND AMA LF40
3.5	Low foam non-ionic
2.0	NTA Na ₃ (38%)
2.0	Sodium metasilicate
6.0	Sodium Tripolyphosphate
80.5	Water

131. HEAVY DUTY DEGREASER - ALKALI

Raw Material	% Weight
Lakeland AMA or AMA LF40	8
KOH (50 %)	20
EDTA powder	4
Butyl Oxitol	3
Alcohol Etoxylate (C _{9/11} + 8 – 10 EO)	2
DDBSA	1.5
Water	61.5

136. Aluminium Degreaser

% Weight	Material
4.5	LAKELAND LDP 80
2.0	LAKELAND AMA LF40
10.0	TKPP (50% solution)
4.5	Sodium Metasilicate (5 H ₂ O)
4.0	C _{9/11} alcohol + 4/5 EO
75.0	Water

138. Wheel Cleaner

% Weight	Material
2.0	LAKELAND PA 100
2.0	LAKELAND AMA LF40
0.3	IMIDAZOLINE 18OH
30.0	HCl conc
1.0	C _{9/11} alcohol + 4/5 EO
64.7	Water

139 - Screenwash Formulation

0.6% Lakeland AMA LF40

5% IPA or butyl oxitol

0.2% DDBSA (Na Salt)

Balance water

Perfume and dye

This formulation is to be used as is, with no further dilution necessary.

Upholstery Cleaner

Ref 141

% Wt	RAW MATERIAL
4.0	LAKELAND AMA LF40
3.0	Sodium Metasilicate (5H ₂ O)
2.0	EDTA Na ₄
6.0	Butyl Oxitol
1.0	Propan-2ol
84.0	Water

Low Foam Parts Cleaner (for machinery)

4% AMA LF40
10% Caustic
12% Metso
6% Sequestrant
4% nonionic
7% PAE 803K

LOW FOAM FLOOR CLEANER/WAX STRIPPER **Ref 146**

% Wt	RAW MATERIAL
6.0	LAKELAND AMA LF40
6.0	Tetrapotassium Pyrophosphate
0.2	Low Foam Alkoxylate
2.0	Sodium meta silicate
85.8	water

150. Tile Cleaner

% Weight	Material
2.5	LAKELAND PA 100
3.0	LAKELAND AMA LF40
4.0	Sulphamic acid
12.5	Phosphoric acid
2.0	Low foam alcohol ethoxylate/Prop[oxylate
76.0	Water