

CHEMICAL CLASS Fatty Acid Amido Complex
LISTINGS TSCA, DSL, ECL, IECSC, ASIA-PAC

DESCRIPTION

Cola® Liquid FACD is a fully biodegradable DEA-free fatty acid amido complex which is exceptionally soluble and stable in systems containing high concentrations of sodium hydroxide, potassium hydroxide, sodium and potassium phosphates, sodium silicates and sodium carbonates. It is ideally suited for use in a wide range of alkaline cleaners including:

- Heavy Duty All-Purpose Cleaners
- Wax Strippers
- Floor and Wall Cleaners
- Drain Cleaners
- Liquid Laundry Detergents

Cola® Liquid FACD offers excellent detergency and wetting properties, particularly silicate containing formulations. In most heavy-duty detergent systems, it offers superior performance and economy when compared to systems requiring the use of hydrotropes such as amphoteric and/or phosphate esters.

Cola® Liquid FACD is a low to moderate foamer, producing lower and less stable foam than ethoxylated nonionics and significantly less foam than LAS. Straight aqueous solutions or alkaline solutions which contain up to 15% aqueous solutions of Cola® Liquid FACD show no appreciable increase in the viscosity, even under alkaline conditions.

TYPICAL PROPERTIES

Appearance	Clear Liquid
pH (10% aqueous)	8.5 – 9.5
Acid Value	40 – 55
Alkali Value	75 – 90

SOLUBILITIES @ 10% CONCENTRATION

Electrolyte Solutions:

15%	Sodium Hydroxide (also clear @ 25% but gels in approx. 24 hours)
35%	Potassium Hydroxide
14%	Sodium Carbonate
20%	TKPP
10%	Sodium Chloride
	Saturated Solution of Sodium Metasilicate

Soluble: In water, ethyl alcohol, aromatic hydrocarbons, natural oils and fats.

Insoluble: In chlorinated hydrocarbons, mineral spirits, kerosene and mineral oil.

STORAGE AND HANDLING

Cola® Liquid FACD should be stored in closed containers. Frozen material may be thawed in a warm room, venting drums while warming. Shelf life is 24 months. A Safety Data Sheet is available upon request.

PACKAGING

Cola® Liquid FACD is shipped in 55 gal. poly drums and totes.

SUGGESTED FORMULATIONS

1. Liquid Heavy Duty Alkaline Cleaner

1	Water	40.0 %
2	N Sodium Silicate	40.0 %
3	Sodium Hydroxide (50%)	10.0 %
4	Cola®Liquid FACD	10.0 %

Surface Tension (dynes/cm - 2% Solution @ 20°C) = 30.3

Use Dilutions: Medium Duty 2 to 4 oz./gal
 Heavy Duty 4 to 8 oz./gal.

Procedure: Charge water, start agitation and then add N Sodium Silicate. Add NaOH solution and agitate until clear. Finally, add Cola®Liquid FACD and continue agitation (approx. 45 minutes) until solution clears.

Specification: pH (as is) = 12.7 Foam = Moderate

2. Powdered Heavy Duty Alkaline Cleaner

1	Sodium Metasilicate Anhydrous	31.7 %
2	Sodium Hydroxide Flakes	31.7 %
3	Sodium Carbonate	31.6 %
4	Cola®Liquid FACD	5.0 %

Procedure: Blend powders well in suitable non-aluminum mixing vessel using traditional spray methods for incorporating Cola®Liquid FACD.

3. Liquid Heavy Duty Alkaline Cleaner

1	Water	54.7 %
2	Tetrapotassium Pyrophosphate (60%)	25.3 %
3	Sodium Hydroxide (50%)	10.0 %
4	Cola®Liquid FACD	10.0 %

Procedure: Add ingredients in the order listed with good agitation.

Specification: pH (as is) = 13.7 Foam = Moderate

4. Liquid White Wall Tire Cleaner

1	Water	77.6 %
2	Sodium Tripolyphosphate	4.7 %
3	Trisodium Phosphate	4.7 %
4	Metso Anhydrous	3.0 %
5	Cola®Liquid FACD	10.0 %

Procedure: Add ingredients in the order listed with good agitation. Lower concentrations of Cola®Liquid FACD may be used with a proportional reduction in cleaning and rinsing properties.

Specification: pH (as is) = 12.6

5. Liquid All-Purpose Concentrate

1	Water	75.0 %
2	Sodium Tripolyphosphate	5.0 %
3	N Sodium Silicate	5.0 %
4	Sodium Hydroxide (50%)	5.0 %
5	Cola® Liquid FACD	5.0 %
6	Butyl Carbitol	5.0 %

Use Dilutions: Light Duty 2 to 4 oz./gal.
 Medium Duty 4 to 8 oz./gal.
 Heavy Duty 16 to 32 oz./gal.

Procedure: Add ingredients in the order listed with good agitation.

Specification: pH (as is) = 13.0

6. Liquid Household Drain Cleaner

1	Water	89.5 %
2	Sodium Hydroxide - Flakes	9.5 %
3	Cola® Liquid FACD	1.0 %

Procedure: Carefully (caution exotherm) add ingredients in the order listed with good agitation.

7. Solvent / Deodorant Cleaner

1	Kerosene	20.0 %
2	Orthodichlorobenzene	20.0 %
3	Cola® Liquid FACD	3.0 %
4	Water	57.0 %

Procedure: Add ingredients in the order listed with good agitation. This formulation is a good example of the low percentage of Cola® Liquid FACD required to emulsify orthodichlorobenzene.

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