



ColaMines & ColaMids

For Manufacturing Dry Cleaning Compounds

Cola[®]Mid MEDC and Cola[®]Mine CDDA are used in large volume in the manufacture of dry cleaning detergents. While Cola[®]Mine CDDA is not clearly soluble, Cola[®]Mid MEDC is clearly soluble in solvents such as Stoddard Solvent, Perchloroethylene, etc. A combination of the two gives systems great water holding characteristics. This is of importance, since the International Fabricare Institute published their work on the influence of the relative humidity in the solvent and in the atmosphere above the solvent of the wash wheel.

Cola[®]Mid 340-A exhibits still greater oil solubility and is likewise used extensively for the purpose of controlling the relative humidity during the dry cleaning operation. With the same object in view, Cola[®]Mid 7-153 has been developed for use with Perchloroethylene. The following composition demonstrates the efficiency of this product.

1 part by weight – Cola[®]Mid 7-153
1 part by weight - Perchloroethylene
5 parts by weight - Water

This produces a clear solution that will remain clear on further dilution with Perchloroethylene and also will give a good emulsion when diluted with water. It will be advantageous to blend Colonial products with other suitable products as they are used in the dry cleaning field.

The final characteristics of a dry cleaning detergent are governed by a number of requirements. Most important, of course, is their cleaning power. Re-deposition of soil must be avoided. Better soil removal may show up in faster filter pressure buildup and this will require some correction, mainly educational enlightenment of the dry cleaner. Investigations at the International Fabricare Institute have shown that the presence of water, not dissolved in the cleaning fluid, can be very harmful. Poor soil removal and bad creasing can occur. Optimum conditions can be easily established by measuring the water vapor pressure in the gas phase of the wash wheel. The Institute has published a number of very interesting papers on this subject. Cola[®]Mids and Cola[®]Mine CDDA, mentioned above, are well suited for achieving these conditions.

The characteristics of the dry cleaning detergent also depend on the method used in the wash wheel. If a water injection method is used, the concentrated detergent is added directly to the solvent and must be able to quickly dissolve the injected water. On installations without injection systems, the operator prepares a stock solution containing the detergent, water and some of the solvent used in the wheel. This mixture usually forms an emulsion, which must be stable for a day or more, until it has been used up. Again, Cola[®]Mid MEDC and Cola[®]Mine CDDA are effective in this respect.

The customary control test with quaternary ammonium compounds and dyestuff to determine the concentration of detergent in the wash fluid does not work when using

Cola[®]Mid and Cola[®]Mine alone. A tracer can be introduced which will react with the quaternary ammonium compound. A simple electric conductivity method also has proved quite acceptable for this determination. It measures the amount of electric current which can pass the solution and which depends on the amount of water dissolved in the solvent.

Water emulsifying capability of 80 ml Perchlorethylene and 20 ml of surfactant:

Surfactant	Water
Cola [®] Mid MEDC	35.9 ml
Cola [®] Mid MEDC/Cola [®] Wet DOSS 75	20.0 ml
Cola [®] Mid 7-153/ Cola [®] Mid MEDC	50.0 ml
Cola [®] Mid MEDC	28.6 ml
Cola [®] Mid MEDC/Cola [®] Fax 3377 PE	25.0 ml
Cola [®] Fax 3376 PE	6.8 ml

COLONIAL SURFACTANTS FOR DRY CLEANING DETERGENTS

Phosphate Esters:	Cola [®] Fax 3376 PE
Amines & Amides:	Cola [®] Mid 340-A
	Cola [®] Mid 7-153
	Cola [®] Mid MEDC
	Cola [®] Mine CDDA
Sulfosuccinates:	Cola [®] Wet MA-80
	Cola [®] Wet DOSS 70E

SPOTTING COMPOUNDS FOR DRY CLEANING

PAINT, OIL & GREASE REMOVER

	<u>% BY VOLUME</u>
Solvent 150	35.00
Cola [®] Wet DOSS 70	15.00
Hexylene Glycol	30.00
Ethyl Laceyate	10.00
Methylene Chloride	5.00
Methanol (99%)	1.00
Trichlorethylene	<u>4.00</u>
	100.00

AQUEOUS PRESPOTTER

	<u>% BY VOLUME</u>
Propylene Glycol	8.45
Cola [®] Wet DOSS 70	7.75
N-Methylpyrrolidone	1.80
Water	81.50
Perfume	<u>0.50</u>
	100.00

DRY SPOTTING AGENT

Chloroethane NU, which may be diluted with other solvent(s) to meet cost requirements.

GENERAL FORMULA

	<u>% BY VOLUME</u>
Glycolic Acid	20.00
Ethyl Lactate	10.00
Methanol (anhydrous)	10.00
Cola [®] Wet DOSS 70 or Cola [®] Wet DOSS 70E	10.00
Glycerine (Tech.)	<u>50.00</u>
	100.00

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