



All-Purpose Cleaners & Low VOC Cleaners

FORMULATION 1:

ALL-PURPOSE CLEANING PRODUCTS

<u>COMPOUND</u>	<u>% WT.</u>			
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
Cola®Mulse Emultron PM	10.2	12.0	12.0	31.0
Aromatic 100	7.3	10.0	---	17.2
d-Limonene	---	---	10.0	17.2
Isopropanol	---	2.0	---	8.6
Water	82.5	76.0	78.0	26.0

COMMENTS:

All of these formulas will produce clear microemulsions. They may be further diluted with water before use. Formula D is a concentrate that remains clear on dilution. It also demonstrates the use of Aromatic 100 as an "extender" for the more expensive d-Limonene.

FORMULATION 2:

LOW VOC CLEANERS

<u>COMPOUND</u>	<u>% WT.</u>		
	<u>E</u>	<u>F</u>	<u>G</u>
Cola®Mulse Emultron PM	10.0	16.0	18.1
Isopar M	20.0	4.0	55.3
Dowanol DPnB	5.0	4.0	5.5
Nonoxynol-4	---	---	4.5
Water	65.0	76.0	16.6

COMMENTS:

Formula E is a white milky emulsion with good stability. If a clear microemulsion is needed, Formula F will provide the answer and is further dilutable with water while remaining clear and stable. Formula G is unique in that it is a clear, water-in-oil microemulsion. The oil is the continuous phase and this product may be diluted with oil before use or with water for form a stable milky emulsion. These formulas may be used for metal cleaners, hard surface cleaners, bathroom soap & scum removers and general-purpose cleaners.

LAST UPDATED 07/19/2006

FORMULA NUMBER: 084

WARRANTY

Colonial Chemical guarantees that its products meet published specifications. No other warranties or guarantees are expressed or implied because the use of this material is beyond the control of Colonial Chemical.

Colonial Chemical, Inc.

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