



Cola[®]Mulse Emulsifiers

DESCRIPTION

Cola[®]Mulse products are specialty emulsifiers designed for use with industrial solvents including aromatics, DBE solvents, d-Limonene, Exxate solvents, kerosene, mineral spirits, pine oil, and terpenes. They provide outstanding detergency, wetting, and rinsibility properties to solvent based cleaners. They are ideal for use in adhesive removers, paint strippers, transportation cleaners, waterless hand cleaners, and a variety of solvent based degreasers.

EMULSIFIER SELECTION

The following table identifies which **Cola[®]Mulse** product is best suited as the emulsifier for specific types of solvents.

Solvent	Solubility Parameter	Emulsifiers	Emulsion Type
Isopar C	6.9		
Isopar E	7.1		
Isopar G	7.2		
Isopar H	7.2		
Isopar K	7.2	Cola [®] Mulse MA	Opaque Ringing Gel
Isopar V	7.2		
Isopar L	7.3		
Isopar M	7.3		
Exxate 1300	7.9		
Exxate 1000	8.0	Cola [®] Mulse ECA	Opaque Viscous Liquid
Exxate 800	8.1		
Exxate 900	8.1		
Exxate 700	8.2		
Exxate 600	8.3		
d-Limonene	8.5	Cola [®] Mulse SBC	Microemulsion
Pine Oil	8.6	Cola [®] Mulse TRP	Microemulsion
Aromatic 150	8.7		
Xylene	8.8		
Aromatic 100	8.8	Cola [®] Mulse D-356	Microemulsion
Toluene	8.9		
		Cola [®] Mulse DLE	Microemulsion

DBE-3	9.7		
DBE	9.9	Cola [®] Mulse DBE	Microemulsion
DBE-5	9.9		
DBE-4	10		

In general, the higher the polarity of the solvent phase, i.e. higher solubility parameters, the greater the HLB requirement of the emulsifier. In addition, the emulsifier should be incorporated into the liquid phase in which it exhibits greater solubility.

TYPICAL PROPERTIES

Cola [®] Mulse	Description	Appearance	pH (10% Solution)	Total Solids (%)
ECA	Nonionic	Clear Liquid	4.5	81
DBE	Anionic	Clear Liquid	6.0	80
DLE	Anionic/Nonionic	Clear Liquid	6.0	90
SBC	Anionic/Nonionic	Clear Liquid	8.9	86
TRP	Anionic/Nonionic	Clear Liquid	6.5	84
D-356	Anionic/Nonionic	Clear Yellow Liquid	8.8	100
MA	Anionic/Nonionic	Clear Yellow Liquid	8.7	100

TYPICAL FORMULATIONS

Solvent Cleaner

	<u>% by weight</u>
Cola [®] Mulse DBE	18.0
Dupont DBE-6	35.0
Water	<u>47.0</u>
	100.0

Suggested Uses:

- Paint Booth Cleaners
- Graffiti Removers
- Adhesive Removers

Appearance - Clear Liquid

Solvent Cleaner

	<u>% by weight</u>
Cola [®] Mulse TRP	10.0
Isopropyl Alcohol	10.0
Pine Oil	9.0
Water	<u>71.0</u>
	100.0

Suggested Uses:

- General Purpose Cleaners
- Industrial Parts Cleaners
- Floor Cleaners

Appearance - Clear Liquid: Dilutions with water; exhibits excellent bloom properties

Lotion Waterless Hand Cleaner

	<u>% by weight</u>
Cola [®] Mulse ECA	16.5
Exxate 1000 or OMS	35.0
Water	<u>48.5</u>
	100.0

Properties:

Appearance White Viscous Lotion

Solvent Cleaner

	<u>% by weight</u>
Cola [®] Mulse DLE	19.0
Dupont DBE-3	15.0
d-Limonene	15.0
Water	<u>51.0</u>
	100.0

Suggested Uses:

- General Purpose Degreasers

Viscosity (cP)
pH

30000
7.5

- Wax Strippers
- Parts Cleaners

Appearance - Clear Liquid

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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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