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JEECHEM Shampoo Concentrate #9CL
 (CTFA: Sodium Laureth Sulfate (and) Cocamidopropyl Betaine (and) Cocamide DEA
 (and) PEG-150 Distearate)

Appearance:	Clear, pale yellow liquid
Active, % (MW 370):	17.0 – 20.0
Solids:	35.0 - 39.0
pH (10%):	5.5 - 6.0
Color (APHA):	250 Maximum
Viscosity, (25°C), cps:	5,000 Maximum
*Specific Gravity, (25°C):	1.06
*Density, lbs/gal:	8.84

*Not a Specification

General Information: JEECHEM Shampoo Concentrate #9CL is a concentrated base for bath products, shampoos and hand cleaners that is formulated to yield a high viscosity at a low use level. Viscosity can be adjusted with the addition of sodium chloride or by modification of the JEECHEM Shampoo Concentrate #9CL/water ratio. Typically, viscosities as high as 12,000 cps may be achieved with a 20% dilution. The pH adjustment can be made with citric acid to the desired pH.

At a dilution of 20% concentrate to 80% water viscosities of up to 12,000 cps may be achieved. In an economy blend using a dilution of 10% concentrate and 90% water a viscosity as high as 3,000 cps may still be reached.

Shampoo Formulation:

Application: An example of a Clear, Economical Shampoo Formulation.

Supplier	Ingredient	Percent
JEEN Int'l	JEECHEM Shampoo Concentrate #9CL	15.00
	Water	to 100%
	Citric Acid	Q.S. to desired pH
DOW	Quaternium-15	0.15
	Fragrance	0.15
	Sodium Chloride	Q.S. to desired viscosity (0%)

Blending Procedures:

Charge mixing vessel with water, JEECHEM Shampoo Concentrate #9CL and mix until dissolved. Adjust pH with citric acid to 6.5 - 7.0. Add preservative and fragrance.

Standard Packaging:	55 Gallon Drums
Net Weight:	450 Lbs.
Storage & Handling:	Store in closed containers below 120°F.
DOT Classification:	Non-hazardous

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