

# DATA SHEET

## DEV-KLEEN SPRAY K-LF

Dev-Kleen Spray K-LF is a heavy duty, potassium based liquid alkaline cleaner designed to remove all types of soils from ferrous substrates, including cutting oils, drawing compounds, coolant residues, smuts, dirt, and metal fines.

The low foaming wetting agents used in Dev-Kleen Spray K-LF lead to the rapid loosening and dispersing of dirt and oils, and will split most oils from the cleaning solution, allowing skimmers to remove oil from the cleaning system, creating a economical cleaning system with a long tank life.

### MAKE-UP AND CONTROL:

- ◆ Concentration 1 – 3%
- ◆ Temperature 120 - 160°F
- ◆ Time 30 seconds - 3 minutes

### Characteristics:

- ◆ Appearance at room temperature Light yellow liquid
- ◆ Specific gravity 1.21
- ◆ lbs/gal 9.97
- ◆ pH at 5% 12.8

### ANALYSIS:

- ◆ Pour an 100 ml. sample into a 250mL Erlenmeyer flask.
- ◆ Add 2 to 3 drops of Phenolphthalein indicator solution. The solution will turn a reddish-purple color.
- ◆ Titrate with 1.0N HCl to a clear end-point.

**Calculation:** % Dev-Kleen Spray K-LF = mls HCl x 0.37

### CAUTION:

This product is extremely caustic in nature. Contact of the solution with skin or eyes should be avoided. In case of contact, flush contaminated area with a large amount of water. When handling this product, protective clothing, i.e. rubber apron, gloves, boots, and goggles should be worn.

**Read Material Safety Data Sheet before using this product.**

### DISCLAIMER:

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# Dev-Kleen Spray K-LF Test Kit

## ANALYSIS:

- ◆ Use the syringe to transfer 10 ml. of the sample to a clear glass bottle.
- ◆ Add 1 or 2 drops of phenolphthalein indicator.
- ◆ While “swirling” the solution, add 1.0N hydrochloric acid (HCl) dropwise until the solution turns clear. Make note of the number of drops used.

### Drops. 1.0 N HCl

- 6  
- 13  
- 19  
- 26  
- 33

### Dev-Kleen Spray K-LF Concentration

1%  
2%  
3%  
4%  
5%