



INDUSTRIAL COATINGS

CK275

**CHEMKLEEN 275**

## PRETREATMENT TECHNICAL DATA SHEET

# A LIQUID BIO-DEGRADABLE CLEANER

### PRODUCT DESCRIPTION

**CHEMKLEEN 275** is a liquid biodegradable cleaner specifically formulated to be used on ultra-high pressure pre-cleaning equipment

### TECHNICAL PROPERTIES

Composition:	Liquid
Appearance:	Clear Yellow
Recommended Concentrations:	5-20% by volume
Recommended Temperatures:	Ambient – 140 <sup>0</sup> F

### PRODUCT ADVANTAGES

- Provides efficient cleaning at ambient temperature
- Can be used effectively on steel, zinc, zinc alloy and aluminum surfaces
- Provides a high builder and high level of detergency
- Eliminates foaming problems often encountered with high pressure cleaning equipment

FEB12/REV4

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### USE & CONTROL INSTRUCTIONS:

#### SOLUTION MAKE-UP

Fill the solution tank approximately 1/2 full with city water. Turn on the mixer or circulating pumps, and slowly add the calculated volume of **CHEMKLEEN 275** to the tank. Add water to bring the tank to operating level, and allow mixing thoroughly. Then check the concentration using the following Control Procedure.

#### CONTROL PROCEDURES

##### Free Alkalinity

Using a 25 mL pipette transfer 25 mL of the operating bath into a 150 mL beaker. Add 4-5 drops of INDICATOR #5 (Phenolphthalein) and titrate with TEST SOLUTION #4 (0.1 N H<sub>2</sub>SO<sub>4</sub>) until the solution changes from pink to colorless. The number of mL of TEST SOLUTION #4 required is recorded as the Free Alkalinity.

<u>CONCENTRATION (% BY VOLUME)</u>	<u>FREE ALKALINITY</u>
3%	6.0
5%	10.0
10%	20.0
15%	30.0
20%	40.0

An addition of 1 gallon of **CHEMKLEEN 275** per 100 gallons of solution raises the free alkalinity by 2.0 mL

##### Total Alkalinity

Total Alkalinity can be determined by adding 3-4 drops of INDICATOR #2 (Brom Cresol Green) to the same 25 mL sample and continue titrating with TEST SOLUTION #4 until the solution changes color from blue to yellow. The number of mL of TEST SOLUTION #4 (including mL of Free Alkalinity) is recorded as total Alkalinity. However, Free Alkalinity is the preferred control method.

As the cleaner bath is used, the Total Alkalinity will rise, representing a gradual loading of the cleaner bath with contaminants. The Total Alkalinity/Free Alkalinity ratio can therefore be used as an indicator of the proper time to dump and recharge the cleaner tank. There is no definite ratio which is applicable to all systems. Your PPG representative will work with you in determining the optimum dump and recharge cycle for your system, based on your own special operating conditions.

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### TECHNICAL DATA SHEET DISCLAIMER—INDUSTRIAL COATINGS:

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