



**Chung Kong Chemical Co. Ltd**

## Technical Data Sheet

---

**Battri-Kleen PL11** is a mildly alkaline, water soluble, emulsifying liquid product developed for cleaning light oils and stamping fluids off multi metals in barrel applications.

The special blend of detergents in **Battri-Kleen PL11** will emulsify and disperse soils such as lard oil, sulfurized and chlorinated oils, general shop oil and synthetic lubricants.

The other feature of **Battri-Kleen PL11** is its ability, when used hot with agitation, or as an ultrasonic cleaner, to remove stubborn carbon compounds from aluminum, steel, and stainless steel.

### ADVANTAGES

Fast dissolving - dissolves in water at any temperature.

- Safe to use - mildly alkaline - non-flammable.
- Fast acting cleaner - parts are cleaned rapidly.
- Non-corrosive and non-fuming.
- Desirable environmental data, non-toxic, low freon extractables, phosphate free and mildly alkaline (pH 8.7).
- Does not contain nitrites or petroleum solvents.
- Tends to split out fabrication lubricants other than synthetic lubricants.
- Delivers limited rust protection in plant environment until next operation.

### OPERATING CONDITIONS

Concentration:	3 to 10% (volume).
Temperatures:	40 - 65 C.
Time:	2 to 10 minutes.
Equipment:	mild steel tank and heating coils.
Ventilation:	not required.

### TITRATION PROCEDURE

1. Pour a 25 ml sample of Battri-Kleen PL11 into a 250 ml erlenmeyer flask.
2. Add 1 ml bromcresol purple- swirl flask to insure complete mixture.
3. Titrate with N-94 Test solution until the solution turns from purple to yellow.
4. Record drops of acid used.

$$\text{CONCENTRATION Battri-Kleen PL11 (\% VOL)} = \# \text{ drops} \times 0.15$$

For example: a 5% by volume solution would require 34 drops of N-94 test solution

**CAUTION**

**Battri-Kleen PL11** is a mildly alkaline product and should be handled accordingly. Avoid skin and eye contact. Wear protective clothing, goggles and gloves. Flush exposed areas immediately with clean cold water. Contact a doctor promptly in case of injury.

**WASTE DISPOSAL**

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

**WARRANTY**

The quality of this product is guaranteed on shipment from our plant. If the use recommendations are followed, desired results will be obtained. Since the use of our products is beyond our control, no guarantee expressed or implied is made as to the effects of such use, or the results to be obtained.