



Chung Kong Chemical Co. Ltd

Technical Data Sheet

Battri-Guard 300 is a liquid rust preventative which when mixed with water, readily forms an effective rust preventative for Ni clad and bare steel battery Cans that are packaged and stored indoors.

Battri-guard 300 was developed to replace rust preventatives based upon sodium nitrite and nitrite/amine systems.

PHYSICAL DATA

Specific gravity.....1.12
Percentage of volatility by volume negligible
Vapor density (air =1) non volatile
Evaporation rate (n-butyl acetate)..... non volatile
Solubility in water..... soluble
Appearance and odor.....amber colored liquid
pH (conc)11.0

OPERATING CONDITIONS

Battri-Guard 300 can be applied by immersion or spray. Solutions of **Battri-Guard 300** are non-foaming. Drying can be accelerated by heating the **Battri-Guard 300** solution or by drying in a heated atmosphere.

Concentrations2 to 4% (volume)
Temperaturesambient to 160° F (71° C)

CORROSION PROTECTION PROPERTIES

Battri-Guard 300 may be classified as a non-severe inhibitor, that is, it should not be used on Battery parts that are stored outdoors under exposure to the elements and temperature extremes. **Battri-guard 300** solution should be used on parts that are stored indoors or wrapped or boxed after the **Battri-Guard 300** solution has dried.

The ideal application is short term, no more than 6 weeks storage.

CONTROL

Titration Procedure

1. Using a graduated cylinder, measure out 25 mls of solution and place in a 250 Erlenmeyer flask.
2. Add 5 drops methyl orange indicator.
3. Titrate with 0.5N hydrochloric acid to red end point.

Mls titrated x 0.45 = % (Vol) Battri-Guard 300

Test Kit Procedure

1. Place 2 mls solution in flask and add 10 mls D.I. water.
2. Add 5 drops of methyl orange indicator.
3. Add N-94 solution dropwise to red end point.

$$\text{Number of drops} \times .29 = \% \text{ (Vol) Battri-Guard 300}$$

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.