



pH OF RYDLYME

It has come to the attention of *APEX ENGINEERING PRODUCTS CORPORATION* that the subject of pH, in regards to our innovative liquid descaler, *RYDLYME*, needs some explanation.

RYDLYME is a very unique and puzzling solution in that it is SAFE to handle and yet is designed to dissolve the toughest water deposits found in water-operated equipment. *RYDLYME* is non-hazardous, non-corrosive and biodegradable. This means that *RYDLYME* will not harm your personnel, equipment or our environment.

The issue of pH has been a difficult one to address and has become a more prominent issue in recent times. We have had great difficulty in ascertaining the proper pH with any degree of certainty for *RYDLYME*. APEX has gone as far as having the manufacturers of metering devices attempt an accurate measurement to no avail. We have been assured that the value falls somewhere around or below 3.0, which puts it on the acidic side of the pH scale. However, please understand that the low pH value of *RYDLYME* does not make the solution corrosive or hazardous. For instance, Coca-Cola, vinegar and orange juice have similar pH values and are all consumable goods but by no means are considered corrosive or hazardous when used as directed.

The actual definition of pH is “Hydrogen ion concentration, measured as the number of gram molecules of hydrogen ions per liter of solution, generally expressed as the logarithm of its reciprocal. The pH is a measure of acidity and alkalinity, neutrality being a pH of 7.0”.

Normally, as *RYDLYME* is circulated through fouled equipment and deposits are dissolved, the pH value will increase as the solution loses strength. This will continue until the depletion of activity has rendered the product close to a neutral pH. There will be instances when *RYDLYME* is dissolving obsolete water treatment chemical deposits (such as phosphates and chromate’s) that the pH value will rise above neutral. Each individual cleaning job will present a unique situation.

The discussion of pH becomes quite involved and intricate because of the many complex water deposits being dissolved, preconceived chemical ideas, and the lack of understanding logarithmic functions. If accurate pH measurement continues to be a dilemma, please feel free to contact us.