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October 6, 1967

Dr. Robert A. Kehoe
The Kettering Laboratory
Univ. of Cincinnati Medical College
Cincinnati, Ohio

Dear Dr. Kehoe:

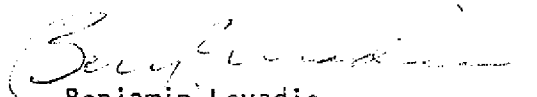
The Lead Industries Association has prepared a draft recommendation to Z 37 of USASI which sets the TLV for Lead Chromate at 0.5 mgms per cubic meter. I have been asked to participate in the deliberations on this.

Before making any judgement I wrote to Dr. Stokinger and also spoke to him on the matter. He was unable to help me relative to data which might validate this standard. During the conversation the observation was made that since lead chromate has a very low solubility in water (about 6 micrograms per 100 ml. in water at room temperature) it is relatively insoluble and hence justifies the TLV recommendation. However, Dr. Stokinger could not clarify the question of solubility of this compound in alveolar fluid. That datum would be pertinent. He suggested that perhaps you might be of help in clarifying the problem.

What are the criteria which validate the recommendation that lead chromate (yellow) is comparatively of much lower toxicity to the lungs than either lead or chromate?

I hope that you can illuminate this question.

Cordially yours,


Benjamin Levadie
Vice Chairman, ASTM D 22

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