

Subject

RANGE FINDING ACUTE ORAL TOXICITY OF PHENOTHIAZINE DRENCH MIXTURES.

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Problem:

Efforts to formulate a Phenothiazine Drench which would wet easily and be easy to administer resulted in two compositions as follows:

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|--|--|
| (1) N.F. Phenothiazine-----99.0%                         | (2) N.F. Phenothiazine-----99.0%                         |
| Oriental licorice----- 0.5%                              | Oriental licorice----- 0.5%                              |
| *Aerosol-OS----- 0.3%                                    | **Nekal "A"----- 0.3%                                    |
| Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ----- 0.2% | Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ----- 0.2% |

Experimental Results:

Both of these Drench mixtures were fed to rats in single oral doses of varying size. The acute oral toxicities being very low in each instance and comparing very favorably with that of phenothiazine alone.

Both of the wetting agents used were fed to cavies in single oral doses of varying size. Neither of these materials appear to be markedly toxic but under the conditions of our tests, the Nekal "A" seemed to be appreciably less toxic than the aerosol OS. However, we do not believe that the use of either of these materials in these compositions significantly alters the acute oral toxicity of the respective mixtures.

\*A commercial di-isopropyl naphthalene sodium sulfonate.  
\*\*A commercial alkyl naphthalene sodium sulfonate.

Conclusions:

We see no reason whatsoever for not promoting the sale of either of these Phenothiazine Drench mixtures.

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