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Report No. 18-48

HL-0018-48

CONTAINS NO CBI

June 11, 1948

SEED DISINFECTANTS - RELATIVE TOXICITY

In accordance with your request, we have determined the minimum fatal dose (MFD) of the following three compounds when administered by stomach tube to rats:

- Thiuran-M (tetramethyl thiuran disulfide)
- Spergon (96% tetrachloro-p-benzoquinone)
- Zinc 2,4,5-trichlorophenate

The compounds were decreasingly toxic in the order listed, the MFD's being as follows:

<u>Compound</u>	<u>MFD (oral - rat)</u>
Thiuran-M	500 - 1100 mg/kg
Spergon	6700 mg/kg
Zinc trichlorophenate	7650 mg/kg

Rats treated with single lethal doses of Thiuran-M died four to nine days after treatment, showing marked weight loss. Autopsy disclosed emaciation, gastroenteritis, and in some cases congestion and edema of the lungs. The one rat which received a lethal dose of Spergon died four days after treatment and also showed weight loss and gastroenteritis. No pathology was found in the rats fed Zinc Trichlorophenate when they were sacrificed for post-mortem examination.

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