General Offices - St. Louis

August 13, 1964

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RESULTS OF TOXICITY
STUDIES ON PYDRAUL 280

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Y-64-91

Enclosed is a copy of the report from Younger Laboratories showing the results of the toxicity studies on Pydraul 280. For those not receiving a copy of the report, the summary is shown below:

SUMMARY - Pydraul 280

A) Oral LD_{50} (Rats, Mixed Sex)

The Oral LD_{50} for male and female rats was placed at 11,750 milligrams per kilogram with lower and upper limits of 9,570 to 14,380 milligrams per kilogram.

The compound was classed as practically non-toxic by oral ingestion in male and female rats.

B) Skin Absorption MLD (Rabbits, Mixed Sex)

The Minimum Lethal Dose by Skin Absorption in male and female rabbits was found to be greater than 1,260 milligrams per kilogram and less than 2,000 milligrams per kilogram.

The compound was classed as mildly toxic by skin absorption in male and female rabbits.

C) Skin Irritation (Rabbits)

The compound was classed as a moderate skin irritant.

The average maximum score was 3.3 out of a possible 8 in 24 hours.

D) Eye Irritation (Rabbits)

The compound was classed as a moderate eye irritant.

The average maximum score was 31.3 out of a possible 110 in 24 hours.

E) Vapor Inhalation - 350° F. (Male Rats)

All animals survived the six hour exposure as well as the following ten day observation period.

It was concluded that the vapors were mildly toxic under conditions of the test.

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Interpretation of Data

Undiluted Pydraul 230 was classed as practically non-toxic when administered orally to mixed sex rats.

When the undiluted sample was applied percutaneously to the clipped intact skin of rabbits, the compound was classed as mildly toxic.

When the undiluted sample was applied to the clipped intact skin of the rabbit or instilled into the rabbit eye, it was classed as a moderate irritant.

When male rats were exposed to the vapors of Pydraul 230, which had been heated to 350° F. and employed at ambient temperature, for six hours, there were no deaths; but discomfort was noted. The vapors were classed as mildly toxic.

It is necessary to wear full skin and eye protective equipment when handling this product.

In case of accidental skin contact, wash off with soap and water.

In case of accidental eye contact, flush out with water for at least 15 minutes.

William M. Hunt, Ph.D.

WMH:shd

*Receives copy of report