

St. Louis, Missouri

C O P Y

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TOXICITY REPORT ON HYDRAULIC FLUIDS OS-81, OS-83

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Attached is a copy of the report from Younger Laboratories on the toxicity studies of the subject fluids. The data in the report may be summarized as follows:

Oral Toxicity In Rats

OS-81 -- (see OS-81 file)

OS-83 -- The Oral LD₅₀ of this fluid was placed at 34.3 grams per kilogram with lower and upper limits of 32.6 to 36.5 grams per kilogram. This indicates that the compound is relatively harmless from a standpoint of oral ingestion.

Oral Toxicity In Rabbits

OS-81 -- (See OS-81 file)

OS-83 -- The Minimum Lethal Dose in rabbits for this fluid was 4.25 to 5.00 grams per kilogram. The animals in this experiment did not appear to develop any paralytic symptoms. These data indicate considerable difference between the rat and rabbit work also. These data indicate that this fluid is only slightly toxic from a standpoint of oral ingestion to rabbits.

Skin and Eye Irritation In Rabbits

OS-81 -- (See OS-81 file)

OS-83 -- This fluid was also tested for skin and eye irritation. These tests indicate that this fluid is a rather mild skin irritant with a score of 0.3 out of a possible 8.0 and a mild eye irritant with a score of 10.0 out of a possible 120.0.

Vapor Inhalation In Rats

OS-81 -- (See OS-81 file)

OS-83 -- The same tests were performed using OS-83 with practically the same results. It can be concluded, therefore, that the vapors of both OS-81 and OS-83 are only mildly irritating to rats.

In general it can be concluded from these results that OS-83 is at best only slightly toxic by oral ingestion and is a mild eye and skin irritant. OS-81 is at worst moderately toxic by oral ingestion and is only a mild skin and eye irritant.

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