October 27, 1965

Mr. Jay Sprong
Manufacturing Engineer
Electrolux Corporation
51 Forest Street
Old Greenwich, Connecticut

Dear Mr. Sprong:

I have been asked to forward toxicity information on the new member of our Pydraul series, Pydraul 312.

The attached table shows comparative data for this product and Pydraul A-200 which, I understand, you are familiar with. The animal toxicity data indicate that Pydraul 312 is slightly more toxic when administered orally to rats but would still be considered "practically non-toxic" from the standpoint of accidental ingestion by humans.

Pydraul 312 is significantly less toxic when applied to the skin of rabbits. The local effect on the skin in terms of potential irritation also indicates the lower degree of hazard. The eye irritation potential is comparable as are the vapor inhalation data.

Our label for Pydraul 312 is the same as for Pydraul A-200 and is as follows:

CAUTION!
Contains Chlorinated Hydrocarbons.

Avoid prolonged breathing of vapors or mists.
Avoid contact with eyes or prolonged contact with skin.
If skin contact occurs, remove by washing with soap and water. Following eye contact flush with water.
If clothing becomes soaked with fluid, launder before wearing again.

Experience with the Pydraul series indicates that they should be used in a system as free from leaks as possible. This is particularly important if the fluid is at elevated temperatures where components of the formulations may be volatilized into the work room. At ambient temperature the vapor pressures are such that there is no significant vapor inhalation hazard.

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We recommend the avoidance of repeated and prolonged skin contact principally because the fluids are good solvents for the natural oils and fats on the skin. The removal of these natural "barriers" can lead to drying and cracking.

In summary, we believe that any precautions which have been taken to avoid exposure to Pydraul A-200 will suffice in avoiding any difficulties with Pydraul 312.

If I can be of any further assistance, please do not hesitate to let me know.

Very truly yours,

Elmer P. Wheeler
Manager, Environmental Health
Medical Department

EPW:mjb

cc: A. G. Eades, Monsanto - St. Louis
G. R. Graham, Monsanto - New York

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COMPARATIVE TOXICITY OF PYDRAUL 312 AND PYDRAUL A-200

	Pydraul 312	Pydraul A-200
Oral LD_{50}-Rats	6,500 mg/kg (5460-7735)	10,500 mg/kg (9295-11,865)
Skin MLD - Rabbits	2,000-3,160 mg/kg	625-1,250 mg/kg
Skin irritation Rabbits - Max. score after	1.3/8.0 24 hrs	3.0/8.0 24 hrs
Eye irritation Rabbits Max. score after	13.0/110 24 hrs	11.3/110 1 hr
*Vapor Inhalation - Rats Fatalities/no. exposed	0/4	0/4

*Atmosphere saturated with vapors at ambient temperature

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