

FROM	R. D. Panson	AT	Harmarville	DATE	November 11, 1976
TO	Dr. H. N. MacFarland	AT	Harmarville	REFERENCE	5.2.0 6.0.0 4.9.5-5
SUBJECT	TOXLINE SEARCH - TERATOGENIC EFFECTS OF BENZENE, <u>TETRAETHYL LEAD, VINYL CHLORIDE AND HYDROGEN FLUORIDE.</u>				

A Toxline search on the subject inquiry found references indicating that:

1. Benzene and vinyl chloride are teratogens.
2. Hydrofluoric acid and tetraethyl lead are not teratogens.

Seventeen pertinent references were retrieved ON-LINE; a larger number were retrieved OFF-LINE and will arrive on Friday from the National Library of Medicine.

Nine of the seventeen references, although they referred to teratogenic studies on animals or epidemiological studies, didn't give the results of the studies. The Toxicology Department has ordered these nine publications in addition to some others.

Words searched in this study were: ALL TERATO:, PREGNANCY, PREGNANCIES. It is recommended that the parameters of the search be expanded to include REPRODUCTION, REPRODUCTIVE, FETUS, FETAL, EMBRYO, EMBRYONIC AND EFFECTS.

Attached is Table I summarizing the results of the Toxline Search along with the pertinent Toxline references.


R. D. Panson

RDP:eam

Attachments

11/10/76

Table I

TERATOGENIC EFFECTS OF BENZENE, TETRAETHYL LEAD,
VINYL CHLORIDE, HYDROGEN FLUORIDE

Toxline Literature Search, 11/3/76, 11/10/76

<u>Name of Chemical</u>	<u>Teratogenic Effects</u>	<u>Animal</u>	
Benzene	*		
	*	Rat	Russian
	*	Mouse	Japanese
	Yes	Rat	Russian
	+	Animals	Russian
	Yes	Rat	Russian
	Yes	Animals	Russian
Hydrogen Fluoride (Hydrofluoric Acid)	No	Rat	Russian
Polyvinyl Chloride Plastic	*	-	
Tetraethyl Lead	No	Mouse	
		Rat	
Vinyl Chloride	Yes	Human	
		(epidemiology)	
	*	Human	
	*	Human	
	*	Human	
	*	Human	
	*	Human	Russian
	Yes	Rat	(Maltoni)
		Mice	
		Hamsters	

*Toxline reference indicates either tetratogenesis study was conducted or other data is available (i.e. epidemiological). Reference abstract makes no mention of results. Original publications have been ordered.

+Study deals more with reproductive function. Original publication will be ordered.