

Monsanto

69 10 PM 1:38

MISSOURI AGRICULTURAL EXPERIMENT STATION
101 N. Lincoln Blvd. 2nd
Columbia, Missouri 65211
(314) 694-1000

4-PP

8EHQ-0890-5739 S SUPP

COMPANY SANITIZED

8842000438 5 S : PDCN

89920000341 S : DCN

July 31, 1992

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Document Processing Center (TS-790)
Office of Toxic Substances
U. S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

Subject: Follow-up submission for Aryl substituted benzoate
EPA Document Control No.: Not yet received

Attention: Section 8(e) Coordinator

The enclosed information is being submitted as a followup to the subject docket for the substance generically described as aryl substituted benzoate. This chemical has an internal designation of []. The enclosed information is from a 1-month pilot mouse study, ML-92-204.

Preliminary in-life data from a 1-month pilot mouse study with [] was submitted to the Agency in our letter dated July 10, 1992. In this study, [] was administered to CD-1 mice at dose levels of 0, 10, 100, 1000 and 4000 ppm for 4 weeks. The most notable finding previously reported was the presence of anemia at dose levels of 100 ppm and above with a NOEL of 10 ppm. Preliminary histopathology results from this study are now available. Treatment-related microscopic lesions were noted in the liver, spleen and possibly kidneys at 1000 and 4000 ppm. Microscopic splenic lesions (excessive hematopoiesis) was also noted at 10 and 100 ppm. Thus, a NOEL for this study could not be determined. A summary of the preliminary histopathological data is attached.

COMPANY SANITIZED

Environmental Protection Agency

July 21, 1982

Page 2

Any substituted benzocate is used exclusively for R&D purposes and is handled only by technically qualified workers. The chemical is handled in the laboratory using prudent laboratory practices. Appropriate personnel protective measures, engineering controls, and waste disposal procedures are utilized by the researchers in order to effectively control and minimize human and environmental exposure to this chemical. All potentially exposed workers are being notified of the information contained in this notification in compliance with TSCA Section 5 R&D exemption requirements and the OSHA Hazard Communication requirements.

All information contained in brackets [] is claimed trade secret and confidential. This includes the chemical identity.

Sincerely,



Robert W. Street
Manager, Regulatory Affairs

1

M

Selected Histopathology Results (EHL 92074 AND 92073; [REDACTED])

Organ/Lesion	Sex	N	Incidence (%) Fisher's Result			
			1	2	3	4
LIVER						
Hepatocellular Hypertrophy	M	0/5	0/5	0/5	5/5(100)** [1.4]	5/5(100)** [3.8]
	F	0/5	0/5	0/5	2/5(40) [2.0]	4/4(100)** [3]
Necrosis, Individual Hepatocytes	M	0/5	0/5	0/5	5/5(100)** [1.2]	5/5(100)** [2.4]
	F	0/5	0/5	0/5	0/5	4/4(100)** [1.5]
SPLEEN						
Hematopoiesis, Excessive	M	0/5	1/5(20) [2.0]	5/5(100)** [3.0]	5/5(100)** [5.0]	5/5(100)** [4.4]
	F	0/5	4/5(80)* [2.0]	5/5(100)** [2.6]	5/5(100)** [5.0]	4/4(100)** [5.0]
KIDNEY						
Casts(Proteinous/Hyaline)	M	0/5	1/5(20) [1.0]	0/5(20)	1/5(20) [1.0]	4/5(80)* [1.75]
	F	2/5(40) [1.0]	3/5(20) [1.0]	1/5(20) [1.0]	4/5(80) [1.0]	3/4(75) [1.0]
Dilation/Cysts, Tubular	M	0/5	0/5	0/5	0/5	2/5(40) [2.0]
	F	0/5	0/5	0/5	0/5	1/4(25) [2.0]
Hyperplasia/Regeneration, Tubular Epithelium	M	0/5	0/5	0/5	0/5	3/5(60) [2.7]
	F	2/5(40) [1.0]	0/5	0/5	1/5(20) [2.0]	3/4(75) [1.3]

Organ/Lesion	Sex	Incidence(%)	Fisher's Results [Mean Severity Grade]
Sclerosis/Fibrosis, Bowman's Capsule	M	0/5	0/5
	F	0/5	1/5(20) [1.0]
			0/5
			1/5(20) [1.0]
			3/5(60) [1.7]
			2/4(50) [1.0]

(1) Severity grades on a numerical scale 0-5: 0 = none; 1 = minimal; 2 = slight (mild); 3 = moderate; 4 = marked; 5 = severe; calculated as sum of individual severity grades in a group/ number of affected animals per group.

• = Significant at p 0.05.

** = Significant at p 0.01.

92 AUG 25 AM 8:17

CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY that the microimages appearing on this microfiche are accurate and complete reproductions of the records of U.S. Environmental Protection Agency documents as delivered in the regular course of business for microfilming.

Data produced 12 2 92 Sandy Mertzoff
(Month) (Day) (Year) Camera Operator

Place Syracuse New York
(City) (State)

