

US EPA ARCHIVE DOCUMENT

DATE: August 27, 1978

SUBJECT: Kathon 893 SP- 45

FROM: Robert Coberly
Toxicology Branch, HED

Robert Coberly 8/28/78

TO: Eugene Wilson
Product Manger No. 21

Caswell No.: 613 C
EPA Reg. No.: 707-RET
Pesticide Petition No.: 5F1632

The toxicity data needed to complete the human health hazard for Kathon 893 SP-45 shall include but not be limited to the following studies:

1. Three generation rat reproduction study
2. A second oncogenic feeding study.
3. A mutagenic study - maybe delayed until EPA guidelines are published.

The acute eye irritation study on Technical (RH-893) requested by EPA, has been received and reviewed. The acute dermal irritation study on the technical can be satisfied by extrapolation from dermal irritation study with the 50% formulation, the severe irritation exhibited during the acute dermal LD50 study and also the data from the 21 day subacute dermal study.

Background Data

The following data were submitted in connection with 707-100

Acute Rat Oral LD50 (Tech)	males	794 mg/kg
	females	621 mg/kg
Acute Rabbit Dermal LD50 (Tech)		1.78 mg/kg
Acute Rat Inhalation LC50 (Tech)		<4 mg/L
Acute Eye Irritation (Tech)		severe irritation - corneal opacity present on day 7.
90 Day Rat Feeding (Tech)		NEL = 2000 ppm (highest level tested)

1/2

90 Day Dog Feeding (Tech)	NEL = 2000 ppm (highest level tested)
Rabbit Teratology (Tech)	NEL = 60 mg/kg (highest level tested)
18 Month Mice Feeding (Tech)	NEL = 1000 ppm (highest level tested)
Acute Rat Oral LD ₅₀ (Skane M-8)*	1470 mg/kg
Acute Rabbit Dermal LD ₅₀ (skane M-8)	4.22 ml/kg
Acute Rat Inhalation LC ₅₀ (Skane M-8)	>1.92 mg/L
Acute Rabbit Dermal Irritation (Skane M-8)	PIS = 4.12
Guinea Pig Skin Sensitization (Skane M-8)	not a sensitizer
21 Day Rabbit Dermal (Skane M-8)	1% and 10% solutions produced mild to moderate irritation
10 Day Rat Inhalation (Skane M-8)	2.0 mg/L produced mortality, elevated SGOT and abnormal total leukocyte counts
Acute Rat Oral LD ₅₀ (Kathon 893 SP-45)	550 mg/kg
Acute Rabbit Oral LD ₅₀ (Kathon 893 SP-45)	1200 mg/kg
Acute Rabbit Dermal Irritation (Kathon 893 SP-45)	corrosive and corneal opacity

RD/init:REngler 8/14/78
RCoberly:km

B 8/28/78

Commercial financial information & insect ingredient.