

TIME SEQUENCE INHALATION TOXICITY STUDY WITH VINYL CHLORIDE IN RATS

(Interim Information II)

File:
K-001711-0391. Conduct of the study

See Interim Information of 15th December 1976

2. Results available after a test period of 50 weeks2.1. Body weights

Slightly decreased in test animals.

2.2. Mortality

VCM in the atmosphere (ppm)	number of deaths at week 50	
	males	females
0	1	0
5000	23	21

Initial number of rats: 62 males and 62 females/group.
After 4, 13 and 26 weeks ten males and ten females of each group were killed

2.3. Haematology

No distinct changes.

2.4. Blood biochemistry

No distinct changes.

2.5. Serum electrolytes

The content of potassium in the blood serum was slightly increased in female test animals after 4, 13 and 26 weeks.

2.6. Urine analyses

No distinct changes.

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BSP-retention slightly decreased in test animals after 13 and 26 weeks, but not after four weeks.

2.8. Organ weights

Relative weights of liver and kidneys were slightly increased in male and female test animals after 13 and 26 weeks, but not after four weeks.

2.9. Pathology

2.9.1. Histopathology of the liver

See Enclosure 1. No further results available.

2.9.2. Pathology of rats found dead or killed when moribund

So far, only a few animals have been examined histopathologically. The following tumours were found: a mesenchymal type of tumour in the lungs (possibly a very anaplastic angiosarcoma), an angiosarcoma of the liver, and a squamous cell carcinoma located in the region of the left ear (this tumour originates very probably from the glands of Zymbal).

Gross examination at autopsy of the other rats revealed many tumours or lesions suspected of being tumours, i.e. haemorrhagic or pale nodules in the liver.

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