August 1, 1969

Dr. J. E. Long
Manager, Toxicology
3M Company
3M Center
St. Paul, Minnesota 55101

Dear Jim:

Regarding your request concerning Aroclor 1232, 1248, and 1254, I trust the following will serve your purpose:

Aroclor 1232

Acute oral LD50 - rat - 4470 mg/kg
Acute skin minimal lethal dose - rabbit - >1260 <2000 mg/kg.
Although no skin or eye irritation studies were done, we know that the liquid Aroclors are good solvents for the normal fats and oils of the skin. Sufficient skin contact then could lead to drying and chapping. For this reason we recommend that repeated or prolonged skin contact be avoided.
We do not have inhalation data.
We do not have breakdown products since these are relatively stable compounds.

Aroclor 1248

Acute oral LD50 - Rat - 12,500 mg/kg
Acute skin minimum lethal dose - rabbit - >794 <1260 mg/kg.
A study was made using a 4% (w/v) solution in corn oil applied daily for 20 applications to the clipped intact skin of rabbits at doses of 10, 50, and 100 mg/kg/day.

The 10 mg/kg/day dose had no effect on body weight hematology and urine analyses when compared to the controls nor were there any gross or micropathologic findings.

Aroclor [redacted] (Continued)

The 50 mg/kg/day dose produced generalized inactivity, weakness, lassitude, and loss of appetite. There were no significant local skin reactions. Hematology and urine analyses were comparable to the controls. Gross pathologic examination revealed liver discoloration. All other tissues and organs were comparable to the controls. Micro pathologic examination revealed moderate hepatic necrosis. All other tissues and organs were comparable to the controls.

The 100 mg/kg/day dose was more severe but comparable to the 50 mg/kg/day dose with regard to hematology, urine analyses, gross and micro pathologic examination.

We do not have inhalation nor breakdown product data.

Aroclor 1254

Acute oral LD50 - rat - 11,900 mg/kg
Acute skin minimal lethal dose - rabbit - >1260 <2000 mg/kg.

20 Day Subacute Dermal - Rabbits

Doses were 10, 50, 100, and 200 mg/kg/day. The LD50 was 75 mg/kg/day.
No adverse reactions including hematology, urine analyses, gross or micropathology, except after ten days scaling and wrinkling of the skin, was observed from the 10 mg/kg/day dose.

The 50, 100, and 200 mg/kg/day dose produced generalized inactivity, weakness, lassitude and loss of appetite. The 200 mg/kg/day dose produced death before adverse skin reactions were observed. At the 50 and 100 mg/kg/day levels, there were akin reactions which revealed scaling, wrinkling and fissures.

At these doses there were no effects on hematology or urine analyses.

Gross pathologic examination revealed liver discoloration. However, all other tissues and organs were comparable to the controls.

20 Day Subacute Dermal - Rabbits (Continued)

Microscopic examination revealed moderate liver necrosis. However, all other tissues and organs were comparable to the controls.

We do not have inhalation or breakdown data for this product.

If your weather has been anything like ours during July, you wouldn't ask such a silly question.

Best regards.

Sincerely,

William H. Hunt, Ph.D.
Toxicologist, Medical Dept.

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