Medical, A2SA

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AROCLOR® 1221 and
MCS 1109

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Acute toxicity and irritation data for AROCLOR 1221 and MCS 1109 are tabulated below:

	AROCLOR 1221[a]	MCS 1109
Rat oral LD_{50}, mg/kg	2000	1790
Rabbit skin LD_{50}, mg/kg	5000	>2000 <3160
Rabbit skin irritation score[1]	3.8	5.6
Rabbit eye irritation score[2]	8	16

a) An earlier sample was found to have a rat oral LD_{50} of 3980 mg/kg and a rabbit dermal LD_{50} >2000 <3160 mg/kg.

1) Based on a total possible score of 8. AROCLOR 1221 would be a moderate irritant, MCS 1109 a severe irritant.

2) Based on a total possible score of 110. Both classified as trace to mild eye irritants.

A 20-day rabbit dermal study was conducted with a 12.5% solution of AROCLOR 1221 in corn oil. Daily dosages of 150 mg/kg were without apparent effect. Daily dosages of 250 mg/kg and 500 mg/kg resulted in weakness., lassitude, loss of appetite and body weight and some deaths. The mean LD_{50} for this 20-day treatment period was 250 mg/kg/day.

Recently, 90-day feeding trials of MCS 1109 to rats and dogs were completed at Industrial Bio-Test Laboratories. These feeding studies were done at 30ppm, 100ppm and 300ppm. The histologic evaluation of the tissues remains to be done. When the reports are received, we will furnish you with a copy of the results. Chicken reproduction studies also are underway with MCS 1109, but there is nothing to report on them at this time.

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