Appendix K. Data Table for Mammalian Studies from Health Effects Division

Study Type	MRID No.	Results	Toxicity Category
Acute Oral - Rat	00139328	LD_{50} = 46.1 mg/kg	I
Acute Dermal - Rat	00139326	LD_{50} = 1663 mg/kg	II
Acute Inhalation -Rat	00011449	LC_{50} = 19 mg/L/1hr	III
Primary Eye Irritation	00159199	Mild irritant	III
Primary Skin Irritation	00159200	Non-irritant	IV
Dermal Sensitization	00252433	Non-sensitizing	NA
Acute Delayed Neurotoxicity - Hen	00011704	NOAEL = 350 mg/kg Negative for OPIDN	NA
Acute Neurotoxicity - Rat	43145903 43590304	Cholinesterase inhibition NOAEL = < 1 mg/kg (LDT). Neurotoxicity NOAEL = 4 mg/kg, LOAEL = 8 mg/kg; behavioral effects, tremors. No neuropathology	NA

Study Type	MRID No.	Results
21-Day Dermal Toxicity-Rabbit	40079804	Systemic toxicity NOAEL= 5 mg/kg/day LOAEL =20 mg/kg/day (decrease in body weight gain and hypoactivity).
21-Day Dermal Toxicity-Rabbit	40079806	Systemic toxicity NOAEL = 1 mg/kg/day (LDT) NOAEL (ChE inhibition) = 1 mg/kg/day LOAEL (ChE inhibition) = 10 mg/kg/day (mortality and cholinergic signs)
90-Day Neurotoxicity - Rat	43582501	NOAEL = 0.2 mg/kg/day LOAEL = 0.6 mg/kg/day (serum, central nervous system and red blood cell cholinesterase inhibition)
Chronic-Feeding-Dog	41945001	NOAEL = 0.15 mg/kg/day LOAEL = 1.33 mg/kg/day (RBC cholinesterase inhibition)
Chronic toxicity/ Carcinogenicity-Rat	00160260	NOAEL = 0.2 mg/kg/day LOAEL = 2.0mg/kg/day (brain cholinesterase inhibition) **No evidence of carcinogenicity**
Carcinogenicity-Mouse	00157457	NOAEL = 1.5 mg/kg/day LOAEL = 7.5 mg/kg/day (hepatotoxicity) **Evidence of carcinogenicity (liver tumors) only at the high dose (16.1 mg/kg/day)**
Developmental Toxicity-Rat	40079808	Maternal toxicity NOAEL = 1.0 mg/kg/day LOAEL = 2.25 mg/kg/day (decreased body weight and cholinergic clinical signs) Developmental toxicity NOAEL = $\geq$ 2.25 mg/kg/day

Study Type	MRID No.	Results
Developmental Toxicity-Rabbit	40079810	Maternal toxicity NOAEL = 6.0 mg/kg/day LOAEL = 12.0 mg/kg/day (cholinergic clinical signs) Developmental toxicity NOAEL= $\geq$ 12 mg/kg/day
Reproductive Toxicity	40079812 40079813	Parental/Systemic NOAEL = 0.25 mg/kg/day LOAEL = 2.5 mg/kg/day (tremors, decreased food consumption and ovarian weights) Offspring NOAEL= 0.25 mg/kg/day LOAEL = 2.5 mg/kg/day (based on decreased pup weight and an increased incidence of hypothermia with the appearance of starvation.
Gene Mutation - *Salmonella*	00078329 00078330 00084010	Non-mutagenic (±) activation.
In vivo Mouse Lymphoma	00070213 00078332	Negative
In vivo Sister Chromatid Exchange	00078335	Negative
In vitro (CHO bone marrow cells)	00078334	Negative
Metabolism-Rat	40127818	Methidathion was metabolized and excreted within 24 hours; urine was the primary route of elimination.