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EPA# Date Product N. ie	Use Classi	fication	Toxi Cate
239- EULE 11/5/76 Chevron Monitor Jechnical			Ĭ
RECOMMENDATION: J B objects to the registration until the fo	buta smull	ies have be	en:
referenced or submitted:	aightic	dut.	
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77.01/22 7500		USE	ACCE
Acute Oral (Rat) LD50 21.00m/Kg \$ 18.20m/Kg \$	FORMULATION	DILUTION	AB
TOXIC signs: severe tremore, solviotion, chromodochyrlea, dysprea, it	inoritea andron	ely clonic con	yes
Toxic signs: severe tremore, solvistion, chromodochymba, dysprear, nh signs virident isominates post-dooing; most deallo occurred.	between 3 and 24 f	us after dosing	
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15% confidence interval (17.2-20.8) on /kg 4.			
no pothological conditions were seen at autopay 2.5			
Acute Dermal (Rabbit) LD50 -118 mg/kg			yes
Comments: mioris, solivation, nhinontea, staria, and CNS depression signs evident 1-3 hrs post-dosing; most deaths occurred	n 1 letuesa la a lu	el altoda	· /
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cute Inhalation (nots) LC50	· · · · · · · · · · · · · · · · · · ·		
ioxic signs:		•	17.63
omments: 95% tech used in the wopon inholation study (4 hr exp	meno) meta	+01-10-	0
te 40°C to enhance voporgation		w was read	* COY
beels no deaths although cholinations activity was 70 to	80% of the morne	2 volviei	
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for the registration of 339-EULE.	-32, 3240	Their	
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MONITOR

Acute Rat Oral (95% Tech)

Male LD_{50} = 15.6 mg/KG Female LD_{50} = 13.0 mg/KG Typical cholinesterase inhibition signs were noted.

Acute Rat Oral (75% Tech)

Male $LD_{50} = 21 \text{ mg/kg}$ Female $LD_{50} = 18.9 \text{ mg/kg}$

Acute Rat Oral (6 S)

Male LD $_{50}$ =32.3 mg/KG Female LD $_{50}$ = 24.1 mg/KG Tremors, salivation, dyspnea were noted.

Acute Mice Oral (95%)

Female $LD_{50} = 16.2 \text{ mg/KG}$ Tremors, salivation, dyspnea were noted

Acute Mice Oral (75%)

Female LD $_{50}$ = 18.0 mg/KG Tremors, salivation, straub tail, dyspnea and rarely clonic convulsions were noted. No mortality occurred at 15 mg/KG or lower.

Acute Rabbit Dermal (Tech)

Male $LD_{50} = 118 \text{ mg/KG}$. No gross pathological changes were noted. Toxic signs noted were miosis, salivation, rhinorrhea, ataxia, and CNS depression.

Acute Rabbit Dermal (Monitor 6 S.)

Male LD₅₀ = 125 mg/KG. No gross pathological changes were noted. Toxic signs noted were miosis, diarrhea, salivation, rhinorrhea and death.

Acute Rat Inhalation (95%)

An LC₅₀ value was not established because of the vapor method used. A slight effect was shown by a depression of both the RBC and plasma Ch.E. activity. Exposure was four hours.

Acute Rat Inhalation (Monitor 6 S) (4 hours)

No LC₅₀ value could be established because no measurement of vapors was made. No mortality or signs of intoxication was noted. A slight to moderate depression of the RBC level of Ch.E. activity was noted.

21 Day Subacute Rabbit Dermal (75% Tech)

Levels tested were 5.0 and 10 mg/KG. Two deaths were noted at high level and one at low level. Deaths were due to cholinergic reactions at the high level. Slight body weight loss was noted at the high level. No adverse findings were noted in hematologic and clinical blood chemistry studies. These findings are difficult to believe due to the dosage levels used.

90 Day Rat Feeding (75% Tech)

Levels tested were 0.3, 1.0,
3.0, and 10 ppm. Male showed
plasma Ch.E. depression at
3.0 and 10 ppm; females at
10 ppm. RBC Ch.E. depression
was noted at 10 ppm. Brain
Ch.E. depression was noted
at 3.0 and 10 ppm. The noeffect level is approx. 1.0 ppm.
Recovery was noted several
weeks post treatment.

90 Day Dog Feeding (75% Tech)

Levels tested were 0.025, 0.075, and 0.25 mg/KG. No clear-cut or consistent pattern of effects on cholinesterase activity was observed.

21 Day Rat Paired Feeding Study (97% Tech)

Tested at 30 ppm. No body weight loss was indicated.

Two Year Dog Oral (RE 9006-111, SX-116)

Levels tested were 0.075, 0.25 and 0.75 mg/KG seven days a week. No mortality was observed. No toxic effects were noted.

Two Year Rat Feeding (RE 9006-111, SX-116) (97%)

Levels tested were 3.0, 10, and 30 ppm. Body weight loss was observed at 30 ppm (see 21 day rat feeding). The no effect level is greater than 30 ppm.

Three Generation Rat Reproduction Study (75%)

The Flb litters of the 30 ppm level showed increased stillbirths a decrease in viable pups at day five and again at weaning. All test males showed a decreased heart weight. Histopathology on parent animals was negative. The F2a and F2b litters, both test and control showed a higher than normal number of stillbirths. The 5 day survival index for the F2a and F2b litters of the 30 ppm were higher than the control value. A greater than 20% decrease in Ch.E. activity was noted in both sex of the Flb parents. Histopathological examination revealed no adverse finding.

Microsomal Oxidation

Microsomes accelerate the hydrolysis of monitor to 0,S-dimethyl phosphorothioate.

Metabolism in the Rat

Approximately one-half of the dose was excreted within 24 hrs as ${\rm CO}_2$ or in the urine.

Neurotoxicity in Chickens (75% Tech):

Neurotoxicity was not exhibited

Antidotal Study

Atropine and or 2-PAM are antidotal.

Thiono isomer impurity

Acute Rat Oral (RE 9169)

Male LD₅₀ = 633 mg/KG Female LD₅₀ - 549 mg/KG Death was proceeded by signs of intoxication associated with central nervous system depression.

Acute Rabbit Dermal (RE 9169) (SX 198)

 $LD_{50} = \sim 3.5$ gm/KG on intact skin. $LD_{50} = 1.57$ gm/KG on abraded skin. Toxic signs were weakening hyporeflexia, loss of reflexes and salivation.

Human Exposure Reports

Sixty-six human contact reports with various concentrates did not show significant effects.