

INTEON v GRAMOXONE TOXICITY

Dose (mg paraquat ion/kg)	Dose volume (ml/kg)	Dose (mg formulation /kg)	Dose (mg emetic/kg)	Mean time to emesis (No. dogs)	Plasma PQ (24hr AUC) (ug/ml.h)	Mortality
A12837B (1390-001) Gramoxone Max (360g/L PQ, 0.5g/L PP796, valeric acid. No alginate, mag sulphate, surfactants/wetters)						
2	0.0055	6.22	0.0028	59* (1)	12.7	0/4
8	0.022	24.86	0.011	53* (6)	38.7	2/8
16	0.044	49.72	0.022	83 (4)	21.7	1/4
32	0.089	100.57	0.045	35 (4)	12.3	0/4
64	0.178	201.14	0.089	44 (4)	18.7	1/4
A3879R (1390-002) Gramoxone (200g/L PQ, 0.5g/L PP796, high surfactant/wetters, pyridine base. No mag sulphate or alginate)						
8	0.04	43.20	0.02	61* (3)	8.9	0/4
16	0.08	86.40	0.04	28 (4)	11.2	0/4
24	0.12	129.60	0.06	15 (3)	23.5	1/4
A7813K (1390-003) Inteon K (240g/L PQ, 1.5mg/L PP796, alginate, mag sulphate, low surfactant, cis hexanol.)						
16	0.067	76	0.101	21 (4)	5.5	0/4
64	0.267	302	0.401	17 (4)	7.2	0/4
128	0.533	602	0.800	17 (4)	7.0	0/4
256	1.067	1206	1.600	17 (4)	12.5	0/4
512	2.133	2410	3.200	14 (4)	26.7	3/4
A3879EN (1390-004) Inteon ROW (200g/L PQ, 1.5mg/L PP796, alginate, mag sulphate, low surfactants, pyridine base.)						
24	0.12	137	0.18	23 (4)	10.7	0/4
64	0.320	365	0.48	17 (4)	11.2	0/4
128	0.640	730	0.96	15 (4)	14.5	0/4
256	1.280	1459	1.92	13 (4)	20.1	1/4
A7813R (1390-008) US variation 3 not for sale (240g/L PQ, 0.5g/L PP796, low surfactant, cis hexanol. No alginate, mag sulphate)						
64	0.267	291.03	0.134	17 (4)	5.0	0/4
128	0.533	580.97	0.267	19 (4)	7.5	0/4

N.B All dogs terminated due to toxicity DID vomit

FORMULATION RECIPES

	J8001/1	J4818/179	J4818/186	J4818/175	
	A3879EN Inteon ROW	A7813K Inteon US	A12837B Non Inteon Max	A3879R Non Inteon ROW Gramoxone	“US Variation 3 not on sale” A7813R
	g/l	g/l	g/l	g/l	g/l
PQ ion (100%, emetic free)	200.00	240.00	360.00	200.00	240.00
PP796 (100%)	1.50	1.50	0.50	0.50	0.50
Manutex RM	9.00	9.00	-	-	-
Mag Sulphate	123.74	61.87	-	-	-
Antifoam DB-100	0.50	-	-	-	-
Antifoam MSA	-	0.25	-	-	0.25
Silcolapse5020	-	-	-	0.25	-
Agnique PG-8105 / AI2575	-	10.00	-	-	10.00
BioSoft SDBS 30LA	-	-	-	86.00	-
Synprolam 35X15	-	-	-	43.00	-
Sulfacid blue 5J	2.50	-	-	5.00	-
F,D & C, blue no.1 (13%)	-	3.85	3.50	-	3.85
Pyridine bases H	0.10	-	-	10.00	-
cis-3-hexenol	-	2.00	-	-	2.00
Valeric acid	-	-	2.50	-	-
Acetic acid	As required to reach pH 7.0				
Sodium Hydroxide	As required to reach pH 7.0				